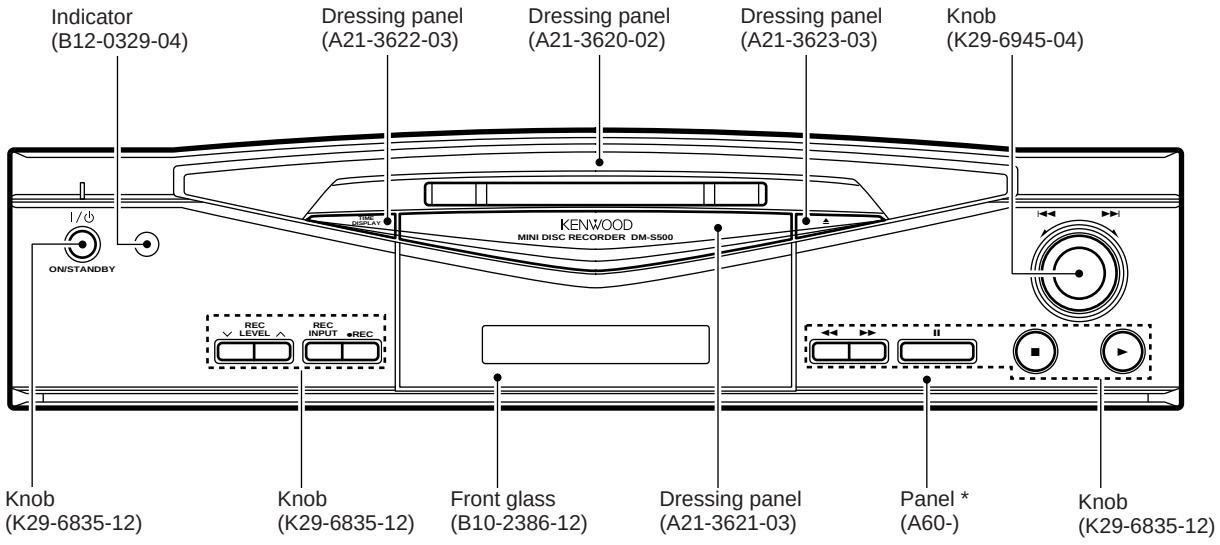
MINI DISC RECORDER

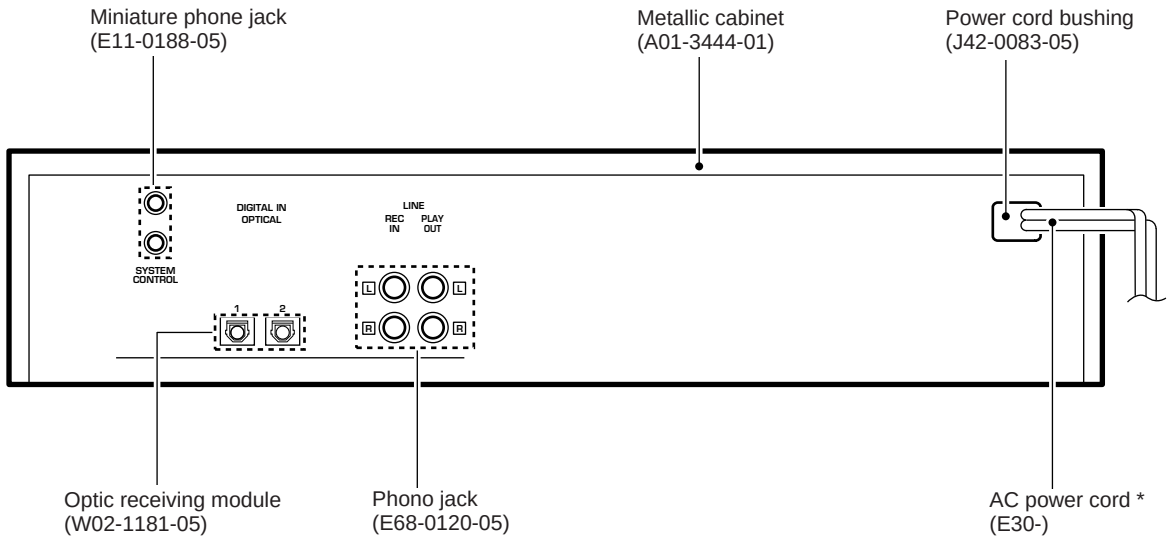
DM-S500

SERVICE MANUAL

KENWOOD

© 1997-11/B51-5398-00 (K/K) 2456





*** Refer to parts list on page 25.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

Refer to DM-SE7/SE9 (B51-5395-00) and DM-5090/9090 (B51-5387-00) service manuals if require circuit description.

DM-S500

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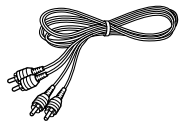
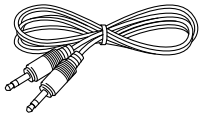
Accessories

Audio cord (2)
(E30-0505-05)

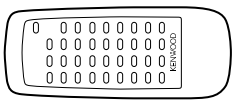


System control cord (1)
(E30-2733-05)



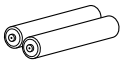
Optical fiber cable (1)
(B19-1529-05)

Remote control unit (1)
(A70-1187-05)

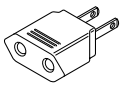


Battery cover (A09-0356-08)

Batteries (2)



AC plug adaptor (1)
(E03-0115-05)



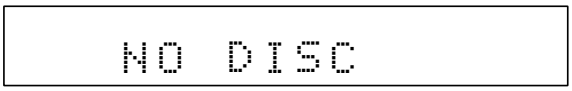
Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

Cautions

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. **With no disc loaded in the unit, press the ON/STANDBY key to on.**
   - Check that no disc is present in the unit.
2. **Wait a few seconds and verify that the display shown appears.**



3. **Press the ON/STANDBY key to off (standby).**

Maintenance

Cleaning

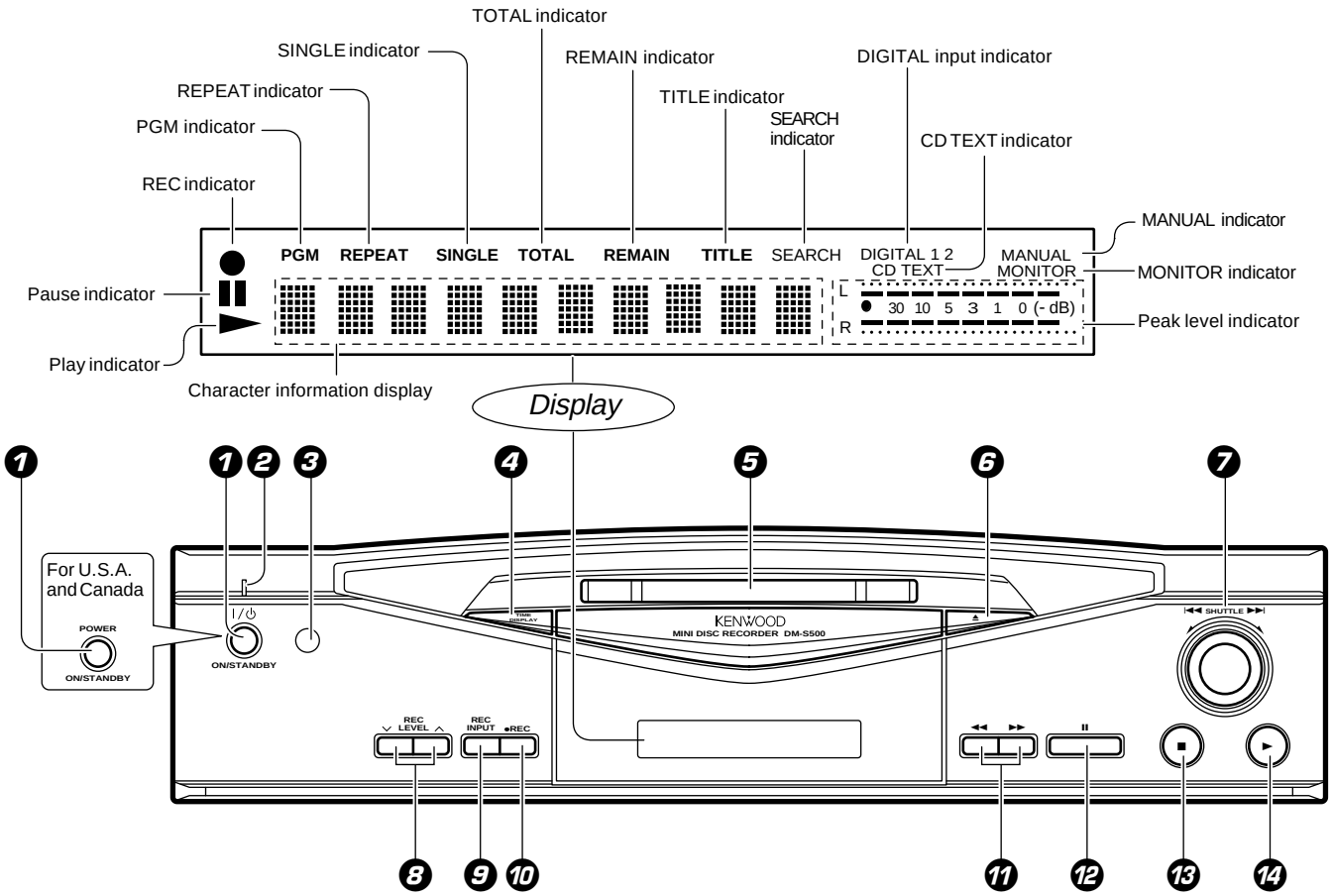
Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.

Caution against contact revitalizer

Do not use contact cleaners because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic componente.

CONTROLS

Display / Main unit



❶ **ON/STANDBY (| / ⏻) key**
Press to turn the unit on or off (standby).

❶ **POWER key (For U.S.A. and Canada)**
Press to turn the unit on or off.

❷ **Standby indicator**

❸ **Remote control sensor**
The key control signals from the remote control unit enter the main unit from here.

❹ **TIME DISPLAY key**

❺ **Mini Disc insertion slot**
Insert a minidisc.

❻ **Eject (⏏) key**
Press to unload the Mini Disc.

❼ **SHUTTLE (|◄◄, ►►|) knob**
Use to skip disc tracks during playback.
During editing, this knob is used to select track numbers, title and characters.

❽ **REC LEVEL keys**
This key is used to adjust the recording level.

❾ **REC INPUT key**
This key is used to switch the recording input source.

❿ **REC (●) key**
Press when starting recording.

⓫ **Fast forward and fast backward (◄◄, ►►)**
During playback, this key is used to move the played position forward or backward.
At the time of editing, the cursor movement and the selected title can be confirmed.

⓬ **Pause (II) key**
Press to temporary stop the disc operation.

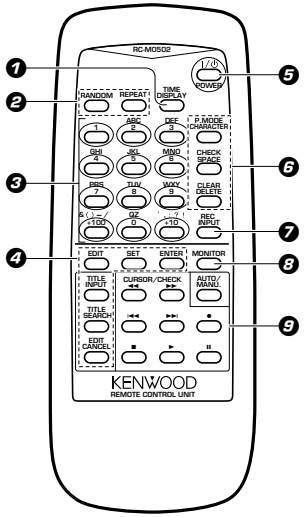
⓭ **Stop (■) key**
Press to stop the disc operation.

⓮ **Play (►) key**
Press to start playback.

About the STANDBY mode

While the STANDBY indicator is lit on the display, a small amount of power is supplied to the system to back up the memory. This is called the standby mode. Under that condition, the system can be turned ON by the remote control unit.

Remote control unit



Model: RC-M0502
Infrared ray system

❶ **TIME DISPLAY key**
: Press to switch the time display mode.

❷ **Applied operation keys**
RAMDOM key
: Used at the time of random playback.
REPEAT key
: Press to play tracks repeatedly.

❸ **Numeric keys**
: Press to specify the desired track number.
: Used at the time of title input for selection of characters and symbols.

❹ **Edit operation keys**
EDIT key
: This key is used to switch the editing mode.
SET key
: Press to set the editing result or input title definitely in memory.
ENTER key
: Press to execute editing or title input operation.
TITLE INPUT key
: This key is used to switch the title input mode.
TITLE SEARCH key
: This key is used to switch the title search mode.
EDIT CANCEL key
: Used to cancel editing.

❺ **POWER (I/⏻) key**
: Press to turn the unit on or off (standby).

❻ **Program operation keys**
P.MODE (Play mode)/CHARACTER key
: This key is used in program playback. During title input, it is used to select the character group.
CHECK/SPACE key
: This key is used to check the program contents.
During title input, it is used to insert a blank space character.
CLEAR/DELETE key
: This key is used to clear the program. During title input, it is used to delete a character.

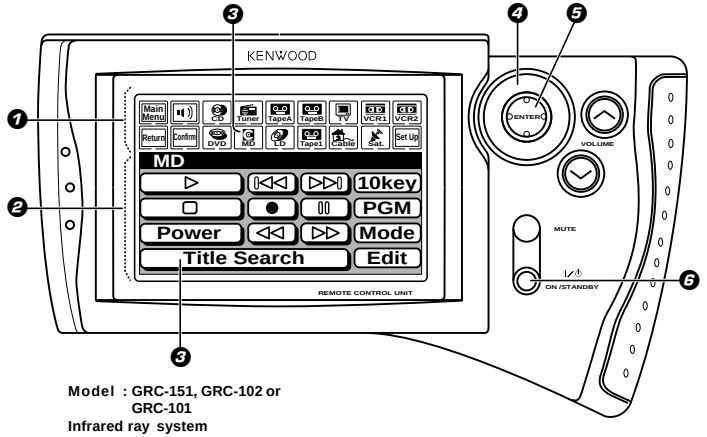
❼ **REC INPUT (Recording input) key**
: This key is used to switch the recording input source.

❽ **MONITOR key**
: The sound of the unit connected to **"DIGITAL 2"** is heard.

❾ **Basic operation keys**
CURSOR/CHECK
◄◄ ►► : Fast forward and fast backward keys.
(Same function as the keys on the main unit.)
I◄◄ ►►I : Skip keys.
(Same function as the knob on the main unit.)
● : Record key
II : Pause key
■ : Stop key
► : Play key
AUTO/MANU. key
: This is used for selection of automatic (AUTO) or manual (MANU.) track number assignment at the time of recording.

Graphical Remote Control Unit (GRC)

A graphical remote control (GRC-151, GRC-102 or GRC-101) is sold separately.
To enable remote control operation, simply connect this unit, cassette deck (sold separately), and other accessories to the AV CONTROL CENTER with the system control cords.



Model : GRC-151, GRC-102 or GRC-101
Infrared ray system

❶ **Segment screen**
This screen is used for selecting the icons for the main equipment.

❷ **Menu screen**
This screen is used for selecting the icons for the operating modes.

MD recorder operation panel
Play icon (►)
Pause icon (II)
Stop icon (■)
Search icons (◄◄, ►►)
These icons send the track forward or backward.
Mode icon
This icon is used to select the playback mode.
Skip icons (I◄◄, ►►I)
When selected, the next track in the icon direction is played.
10key Pad icon
This icon switches to the Numeric Icon menu screen.
Power icon
This icon is used to turn the unit on or off. You can use this icon only when you select "IR" in the setup menu.
Rec icon (●)
This icon is used for recording.
PGM icon
This icon is used for program playback.
Edit icon
This icon is used to select the editing mode.
Title Search icon
This icon is used to switch the title search mode.

❸ **Icons**
Icons for the equipment used and operating mode are displayed.

❹ **Joystick**
The joystick is used when selecting the icons.
(Lightly press the edge of ❺.)

❺ **ENTER key**
Press this button to input the selected icon (operation mode, and so on).

❻ **I/⏻ (ON/STANDBY) key**
This key turns ON/STANDBY this unit or the equipment connected with the system control cords.

If your GRC unit is the GRC-100 or GRC-150

If the GRC unit provided with your AV CONTROL CENTER (optional) or receiver (optional) is the "GRC-100" or "GRC-150", the DM-S500 unit should be controlled using the remote control unit provided with this unit.

ADJUSTMENT

1. Test mode of the unit

1-1 Setting of the test mode

While pressing the [STOP] key, plug the AC power cord into the AC wall outlet.

1-2 Contents of the test mode

① [DOT TEST]
② [SEG TEST]
⌘ ③ [KEY TEST]
⌘ ④ [CYBER TEST] J type only
⌘ Used for production line only

1-3 Function of the test mode

① [DOT TEST]

The FL display starts the "NIAGARA MODE" by pressing the [PLAY] key in the [DOT TEST] mode.

② [SEG TEST]

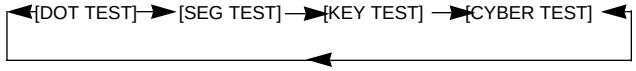
Turn the FL indication ON by pressing the [PLAY] key in the [SEG TEST] mode.

The FL indication changes cyclically as shown in the below by turning the SHUTTLE (I◄◄►►I).

1-4 Function of the key

① SHUTTLE (►►I) and down (I◄◄)keys

: Selects the test mode.



: Selects the FL indication

② Play key

: Proceeds the test mode or return to test mode.

③ Stop key

: Cancel the test mode.

1-5 Microprocessor reset

The microprocessor can be initialized while pressing the [EJECT] key, plug the AC power cord into the AC wall outlet.

2. Mechanism test mode

2-1 Setting the test mode

While pressing the [PLAY] key, plug the AC power cord into the AC wall outlet

2-2 Canceling the test mode

Unplug the AC power cord.

2-3 Basic operation in test mode

All operations are performed using the SHUTTEL (up/down), PLAY key and STOP key. The functions of each key are shown in the table below.

Function	Description
SHUTTEL (up/down)	Changes the parameter and mode.
PLAY key	Proceeds for definition.
STOP key	Returns for interrupt.

2-4 Selection of test mode

12 test modes are selected by turning the SHUTTLE.

No.	Display	Description	Section
1	TEMP ADJU	The work of adjustment is unnecessary in this mode	-
2	LDPWR ADJU	Laser power adjustment	3-5
3	LDPWR CHEC	Laser power check	3-5
4	EFBAL ADJU	Traverse adjustment	3-6
5	FBIAS ADJU	Focus bias adjustment	3-7
6	CPLAY MODE	Continuous playback mode	2-4-1
7	CREC MODE	Continuous recording mode	2-4-2
8	STT-LIMIT	Check the mechanism start limit SW position	-
9	JUMP MODE	Track jump checking mode	-
10	SRV DATA RE	Servo data reading	-
11	EEP MODE	E2PPROM data reading or rewrite	-
12	EEP INITIA	E2PROM data initializing	-

For more information on each adjustment mode, refer to each section of 3, “Electrical adjustment”.

If other adjustment mode has been entered incorrectly, press the STOP key to exit the mode.

* The number 8 - 12 are not used for service. If these mode have been entered incorrectly, press the STOP key immediately to exit the mode. Specially, do not use EEP INITIAL. (E2PROM data has initialized if used it.)

2-4-1 Operation in continuous playback mode

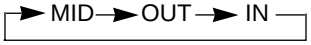
1. Entering the continuous playback mode

(1) Insert a recordable disc or pre-mastered disc into the unit.
(2) Turn the SHUTTLE to display “CPLAY MODE”.
(3) Press the PLAY key. The display then changes from “CPLAY MODE” to “CPLAY MID”.
(4) After the access operation is completed, the display changes from “CPLAY MID” to “C=#### a=##”.

Note: Numerals on the display appear the error rate and ADIP error.

2. Change the playback point.

(1) Press the PLAY key during continuous playback. The display then changes as follows.



(2) After the access operation is completed, the display changes “C=####” a=##”.

ADJUSTMENT

Note: Numerals on the display appear the error rate and ADIP error.

3. Terminating the continuous playback mode

(1) Press the STOP key. The display then changes to "CPLAY MODE".

(2) Press the EJECT key to take out the disc.

Note : The playback start addresses of IN, MID, and OUT are described below.

IN	30H cluster
MID	300H cluster
OUT	700H cluster

2-4-2 Operation in continuous recording mode

1. Entering the continuous recording mode

(1) Insert a recordable disc into the unit.

(2) Turn the SHUTTLE to display "CREC MODE".

(3) Press the PLAY key. The display then changes from "CREC MODE" to "CREC MID".

(4) Press the PLAY key again. The display changes from "CREC MID" to "CREC (####)", and the continuous recording is started.

Note : Numerals on the display (####) appear the address of recording point.

2. Change the recording point.

(1) Turn the SHUTTLE to clockwise while "CREC MID" is displayed. The display changes as follows. (The recording point can be shifted.)

→MID →OUT →IN →

(2) Press the ENTER key. The display then changes to "CREC(####)", and the continuous recording is started.

Note : Numerals on the display (####) appear the address of recording point.

3. Terminating the continuous recording mode

(1) Press the STOP key. The display then changes to "CREC MODE" and the REC display goes off.

(2) Press the EJECT key to take out the disc.

Notes :

1. The recording start addresses of IN, MID, and OUT are described below.

IN	30H cluster
MID	300H cluster
OUT	700H cluster

2. The STOP key can be pressed at any time to stop the recording.
3. An erasure prevention control is not detected in the test mode. Be careful not to enter the continuous recording mode using a disc containing the data that should not be erased.
4. Do not record continuously for more than five minutes.
5. Take care that no vibration is applied during continuous recording.

2-5 Other key function

Function	Description
►	Plays back continuously when this key is pressed during stop. Turn on and off the tracking servo when it is pressed during continuous playback.
■	Stops the continuous playback and recording.
◄◄	The thread moves to the inner circumference while this key is pressed.
►►	The thread moves to the outer circumference while this key is pressed.

Note : An erasure prevention control is not detected in the test mode. Notice that recording is performed irrespective of the erasure prevention control position when the REC key is pressed.

2-6 Precaution on use of test mode

⌘ An erasure prevention control is not detected in the test mode. Therefore, when the recording laser power mode such as continuous recording mode and traverse adjustment mode is entered, the contents of the existing recording are erased irrespective of the control position. Be careful not to enter the continuous recording mode and traverse adjustment mode when using a disc, containing the data that should not be erased, in the test mode.

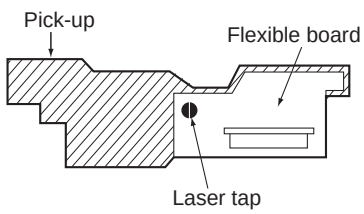
3. Electrical adjustment

3-1 Precaution during confirmation of Laser Diode emission

During adjustment, do not view the emission of a laser diode from just above for confirmation. This may damage your eyes.

3-2 Precaution on handling of Optical pick-up (KMS-260A)

The laser diode in an optical pick-up is easy to be subject to electrostatic destruction. Therefore, solder-bridge the laser tap on the flexible board when handling the optical pick-up.
When removing the flexible board from the connector, make a solder bridge in advance, then remove the board. Be careful not to remove the solder bridge before inserting the connector. Moreover, take careful measures against electrostatic destruction. The flexible board is cut easily. Handle the flexible board with care.



3-3 Precaution during adjustment

1) Perform the adjustment and confirmation marked with "O" in the order shown in the table when the parts below are replaced.

ADJUSTMENT

2) In the test mode, perform the adjustment. After adjustment is completed, cancel the test mode.

	Optical pick-up	BD board		
		IC6	D101	IC1,IC2,IC10
1. Temperature compensation offset adjustment	X	O	O	O
2. Laser power adjustment	O	O	X	O
3. Traverse adjustment	O	O	X	O
4. Focus bias adjustment	O	O	X	O
5. Error rate confirmation	O	O	X	O

3) Perform the adjustment in the order described.
4) Use the following tools and measurement equipment.
   - CD test disc TGYS-1
   - Laser power meter
   - Oscilloscope (with bandwidth of more than 40 MΩ) (Calibrate the probe before measurement.)
   - Digital voltmeter
   - Thermometer
5) Take care that VC and GND (ground) are not connected on the oscilloscope when two or more signals are monitored on the oscilloscope. (VC and GND are short-circuited in this case.)

Note : The "#" display on the screen indicates an arbitrary figure.

3-4 Creating the recordable continuous recording disc

This disc is used for focus bias adjustment and error rate confirmation. How to create the recordable continuous recording disc is described below.

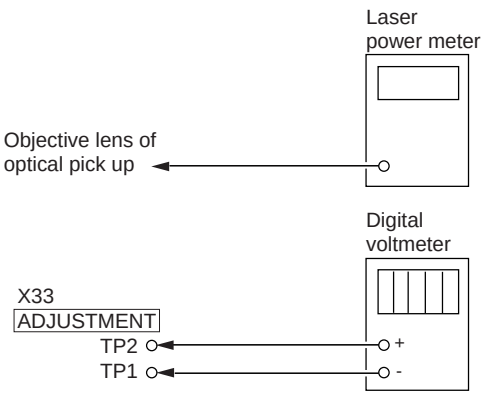
1. Insert a commercial recordable disc (blank disc).
2. Turn the SHUTTLE to display “CREC MODE.”
3. Press the PLAY key to display “CREC MID”.
4. After pressed the PLAY key, a display indicates “CREC(0300)” and the recording begins.
5. Terminate the recording within five minutes.
6. Press the STOP key to stop the recording.
7. Press the EJECT key to take out the recordable disc.

As a result, a continuously recorded disc can be created for focus bias adjustment and error rate confirmation.

Note : Take care that no vibration is applied during continuous recording.

3-5 Laser power adjustment

Connection :



Adjustment :

1. Put the laser power meter on the objective lens of the optical pick-up. Connect the digital voltmeter to TP1 and TP2.
2. Turn the SHUTTLE to display “LDPWR ADJU”. (Laser power : For adjustment use)
3. Press the PLAY key to display “(0.9mW)$##”.
4. Adjust to turn SHUTTLE so that the laser power meter reads 0.86 - 0.94mW. Set range 10mW of the laser power meter,then save to press PLAY key.
5. “(7.0mW)$##” is displayed.
6. Adjust to turn the SHUTTLE so that laser power meter reads 6.9-7.1mW, then save to press PLAY key. ("LDPWR<$##" is displayed momentarily.)

⌘ Don't output the laser power of 7.0mW more than 15sec.

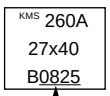
7. Next turn the SHUTTLE to display "LDPWR CHEC".
8. Press PLAY key to display "(0.9mW)$##". Check the laser power meter reads 0.85-0.95mW.
9. Next set range 10mW of the laser power meter, then press PLAY key to display "(7.0mW)$##". Confirm that the laser power meter and digital voltmeterat that time read the specified value.

Specification :

Reading of laser power meter : 7.0 ±0.1 mW

Reading of digital voltmeter : Optical pick-up indication value ±10%

(Optical pick-up label)



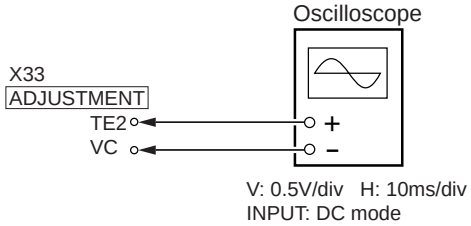
In this case, Iop = 82.5 mA
Iop(mA) = Reading of digital voltmeter (mV)/1(Ω)

10. Press the PLAY key to display “LDPWR CHEC” and stop the laser emission. (The STOP key can be pressed at any time to stop the laser emission.)

Note : The "#" display on the screen indicates an arbitrary figure.

3-6 Traverse Adjustment

Connection :



Adjustment :

1. Connect the oscilloscope to (TE2) and (VC) on the X33 board.
2. Insert a commercial recordable disc.
3. Turn the SHUTTLE to display “EFBAL ADJU”.

ADJUSTMENT

4. Press the PLAY key to display “EFBAL MO-W” and after that press the PLAY key again to display "EF=$##MOW".
5. Turn the SHUTTLE so that the waveform on the oscilloscope satisfies the specified value. (When the SHUTTLE is turned, the #-marked figure in "EF=$##" changes and the waveform also changes.)During this adjustment, the oscilloscope changes in units of about 3%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

(Traverse waveform)

Specification : A = B

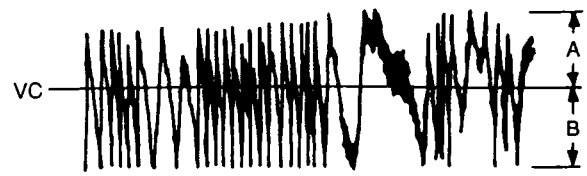
6. Press the PLAY key to display "EFB=##XSA" momentarily. After that, "EF=$##MOR" is displayed. (Laser power READ power, forcus servo ON, tracking servo OFF, and spindle(S) servo ON.)
7. Turn the SHUTTLE so that the waveform on the oscilloscope satisfies the specified value. (When the SHUTTLE is turned, the #-marked figure in "EF-##" changes and the waveform also changes.) During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

(Traverse waveform)

Specification : A = B

8. Press the PLAY key to display “EFB=##XSA” momentarily and save the adjustment result in nonvolatile memory After that, "EFBAL MO-P" is displayed.
9. Press PLAY key to display "EF=$##MOP".(A pick-up moves automatically to pit block area.)
10. Turn the SHUTTLE so that the waveform on the oscilloscope comes near to the specified value. During this adjustment, the waveform changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value.

(Traverse waveform)



Specification : A = B

11. Press the PLAY key to display “EFB=##XSA” momentarily and save the adjustment result in nonvolatile memory. After that, “EFBAL CHAN” is displayed. The disc rotation stops automatically.

Note : The "#" display on the screen indicates an arbitrary figure.

12. Press the EJECT key to take out a recordable disc.
13. Insert test disc TGYS-1.
14. Press the PLAY key to display “EF=$##CD”. A servo is established automatically.
15. Turn the SHUTTLE so that the waveform on the oscilloscope comes near to the specified value. During this adjustment, the waveform changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value.

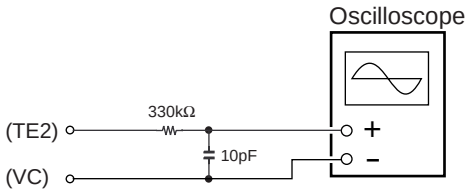
(Traverse waveform)

Specification : A = B

16. Press the PLAY key to display “EFB=##XSA” momentarily and save the adjustment result in nonvolatile memory. After that, “EFBAL ADJU” is displayed.
17. Press the EJECT key to take out test disc TGYS-1.

Notes :

1. Data is erased during MO write when a recorded disc is used for this adjustment.
2. If the traverse waveform is difficult to be monitored, connect an oscilloscope as shown in the figure below.



3-7 Focus bias adjustment

Connection :

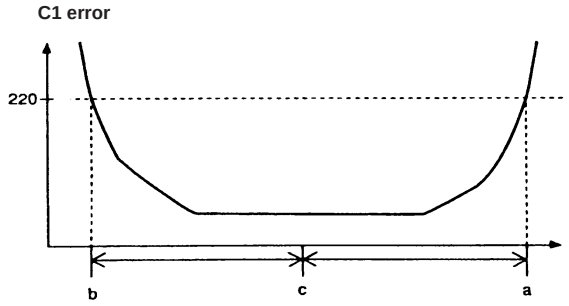
1. Insert a continuously recorded disc (refer to 3-4, “Creating the recordable continuous recording disc”).
2. Turn the SHUTTLE to display “CPLAY MODE”.
3. Press the PLAY key to display “CPLAY MID”.
4. Press the STOP key when "C=✻✻✻✻ a=✻✻" is displayed.
5. Turn the SHUTTLE to display “FBIAS ADJU”.
6. Press the PLAY key to display “a=## ####/”. The four-digit figure indicates the C1 error rate, and the two-digit figure after “a=” indicates the focus bias value.

ADJUSTMENT

7. Turn the SHUTTLE clockwise and detect the focus bias value in which the C1 error rate becomes 220.
8. Press the PLAY key to display “b=## ####/”.
9. Turn the SHUTTLE counterclockwise and detect the focus bias value in which the C1 error rate becomes 220.
10. Press the PLAY key to display “C=## ####/”.
11. Confirm that the C1 error rate at that time is less than 50, then press the PLAY key.
12. The display appears "✻✻–✻✻–✻✻(X" momentarily and save the adjustment result in nonvolatile memory. After that "FBIAS ADJU" is displayed.
13. Press the EJECT key to take out a continuous recording disc.

Notes :

1. The relation between the C1 error and focus bias value is shown in the figure below. Points “a” and “b” in the figure are detected by the above adjustment. Focal position “C” is automatically obtained from points “a” and “b” by calculation.
2. The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



3-8 Error rate confirmation

3-8-1 CD error rate confirmation

Confirmation :

1. Insert test disc TGYS-1.
2. Turn the SHUTTLE to display “CPLAY MODE”.
3. Press the PLAY key to display “CPLAY MID”.
4. “C=#### a=##” is displayed.
5. Confirm that the C1 error rate is less than 20.
6. Press the STOP key to stop the playback, than press the EJECT key to take out a test disc.

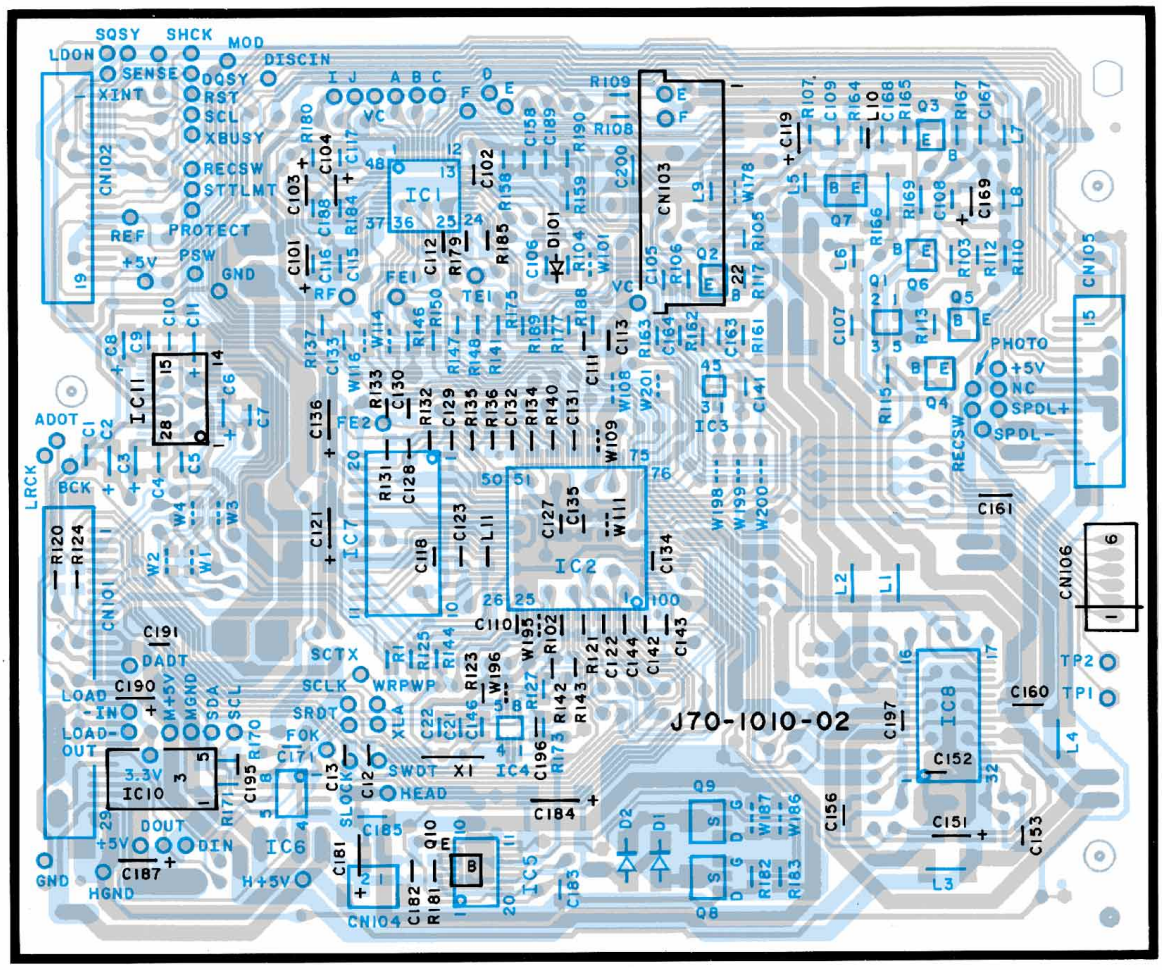
3-8-2 MO error rate confirmation

1. Insert a continuously recorded disc (refer to 3-4, "Creating the recordable continuous recording disc")
2. Turn the SHUTTLE to display “CPLAY MODE”.
3. Press the PLAY key to display “CPLAY MID”.
4. “C=#### a=##” is displayed.
5. Confirm that the C1 error rate is less than 50 and that ADIP error rate is 00.
6. Press the STOP key to stop the playback, then press the EJECT key to take out a test disc.

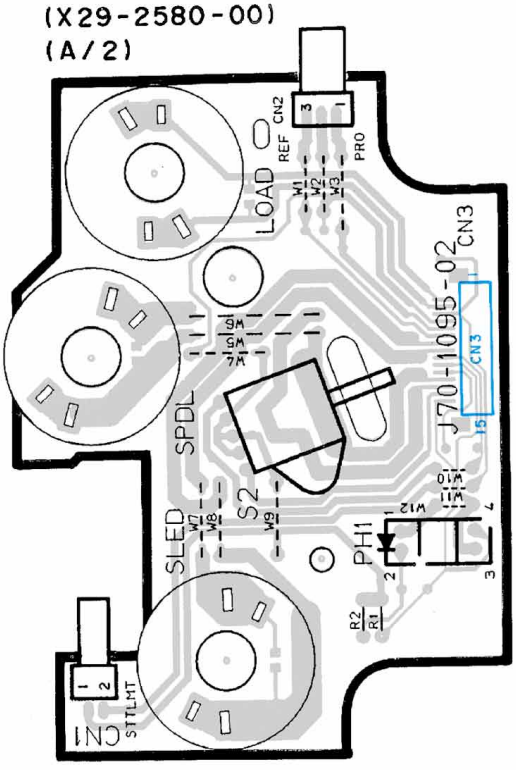
Note : The "#" display on the screen indicates an arbitrary figure.

PC BOARD(Component side view)

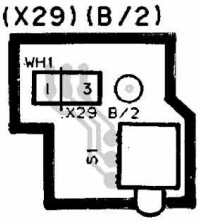
MD MECHANISM UNIT
(X33-1100-00)



MD CONTROL UNIT
(X29-2580-00)
(A/2)



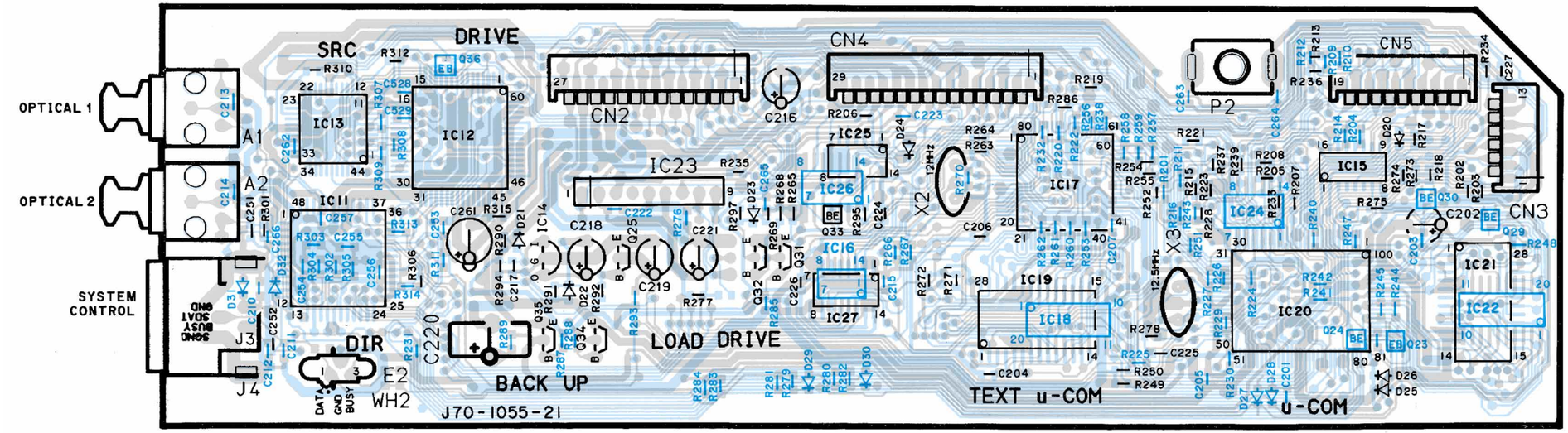
(X29)(B/2)



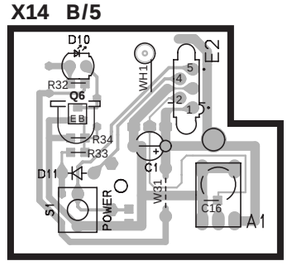
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

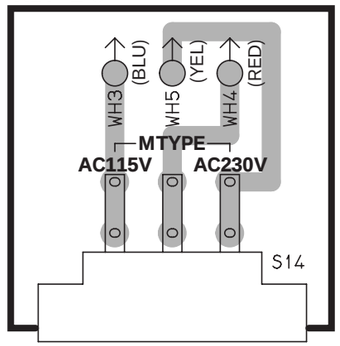
(X25-6012-71) (A/3)



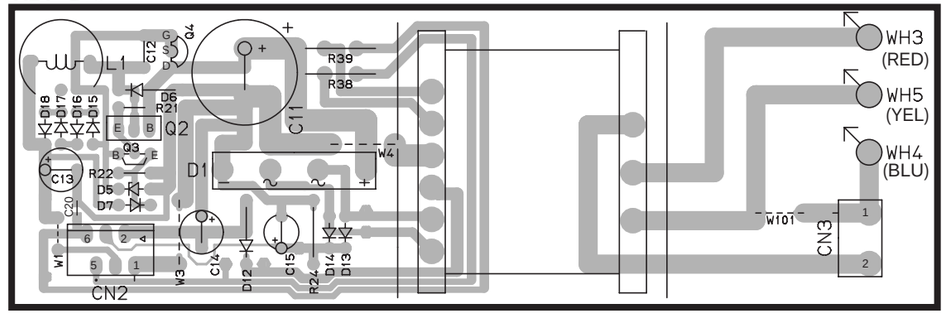
X14 B/5



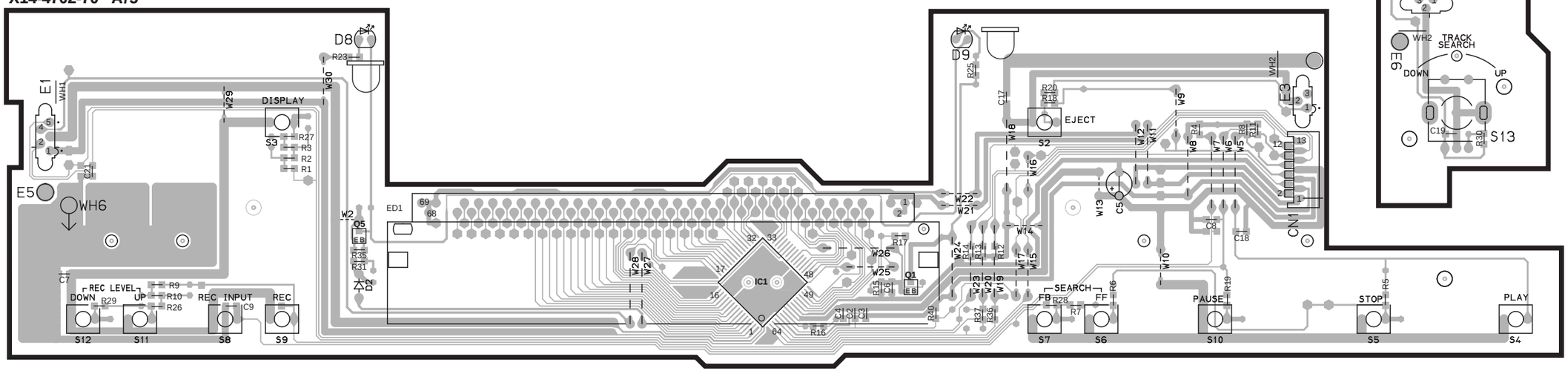
X14 E/5



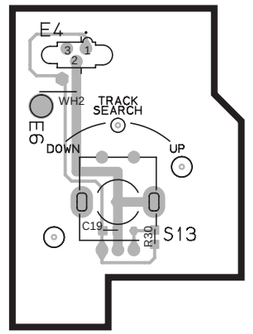
X14 D/5



X14-4702-70 A/5



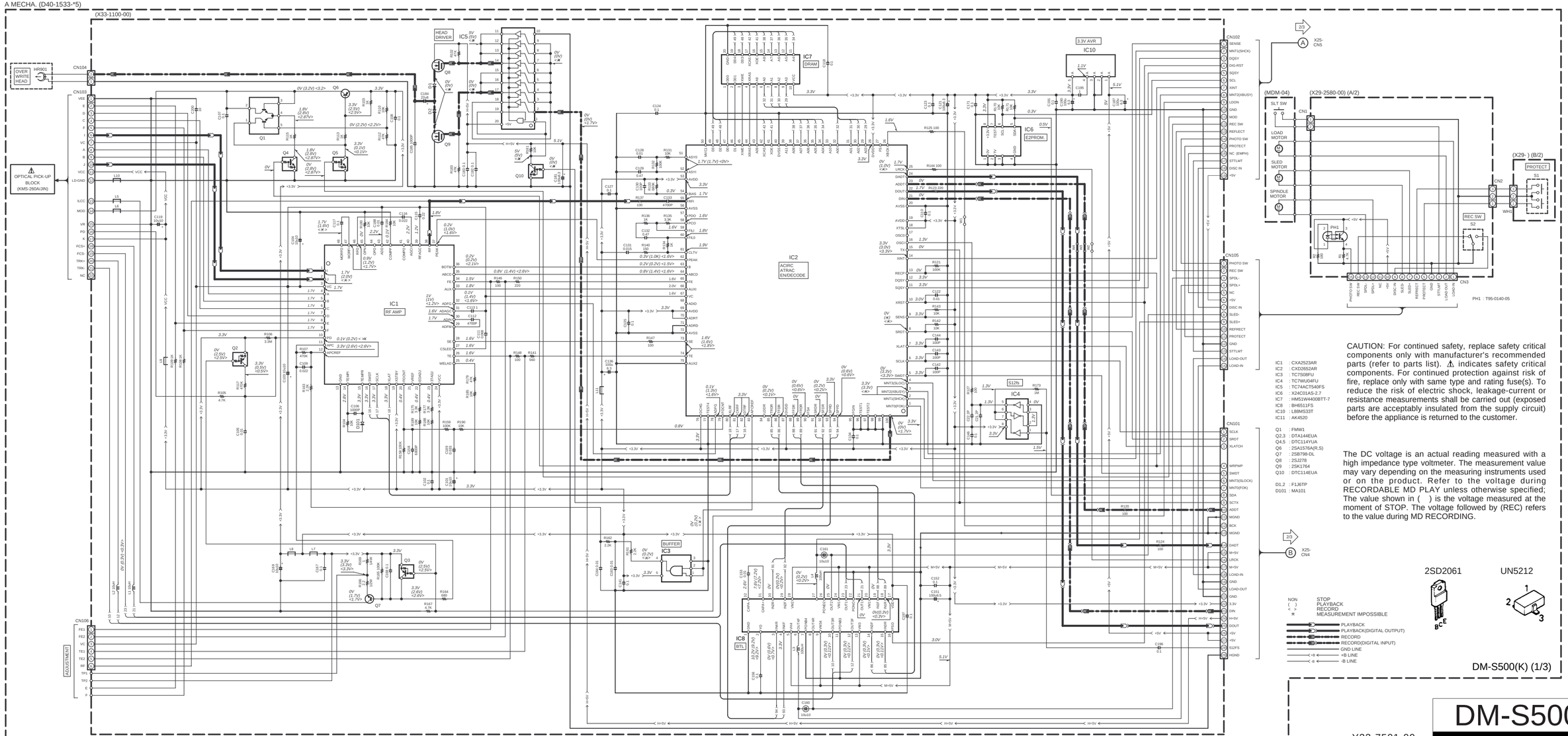
X14 C/5



Refer to the schematic diagram for the value of resistors and capacitors.

A MECHA. (D40-1533-*5)

(X33-1100-00)



IC1 : CXA2523AR
IC2 : CXD2652AR
IC3 : TC7S08FU
IC4 : TC7WU04FU
IC5 : TC74AC7540FS
IC6 : X24C01AS-2.7
IC7 : HM51W4400BTT-7
IC8 : BH6511FS
IC10 : L88MS33T
IC11 : AK4520

Q1 : FMW1
Q2,3 : DTA144EUA
Q4,5 : DTC114YUA
Q6 : 2SA1576A(R,S)
Q7 : 2SB798-DL
Q8 : 2SJ278
Q9 : 2SK1764
Q10 : DTC114EUA

D1,2 : F1J6TP
D101 : MA101

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.

2SD2061 UN5212

NON ( ) < > * STOP PLAYBACK RECORD MEASUREMENT IMPOSSIBLE

PLAYBACK
PLAYBACK(DIGITAL OUTPUT)
RECORD
RECORD(DIGITAL INPUT)
GND LINE
+B LINE
-B LINE

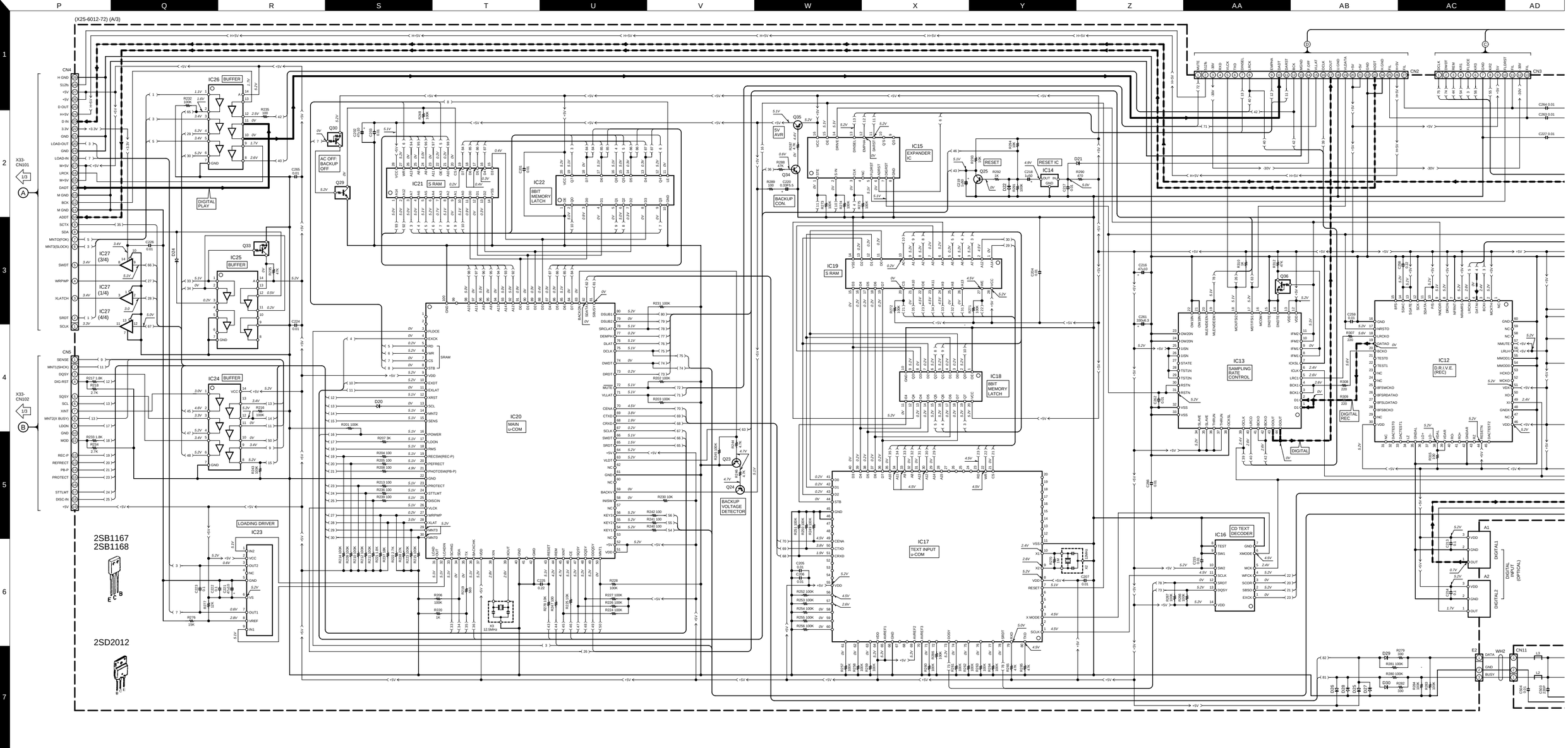
DM-S500(K) (1/3)

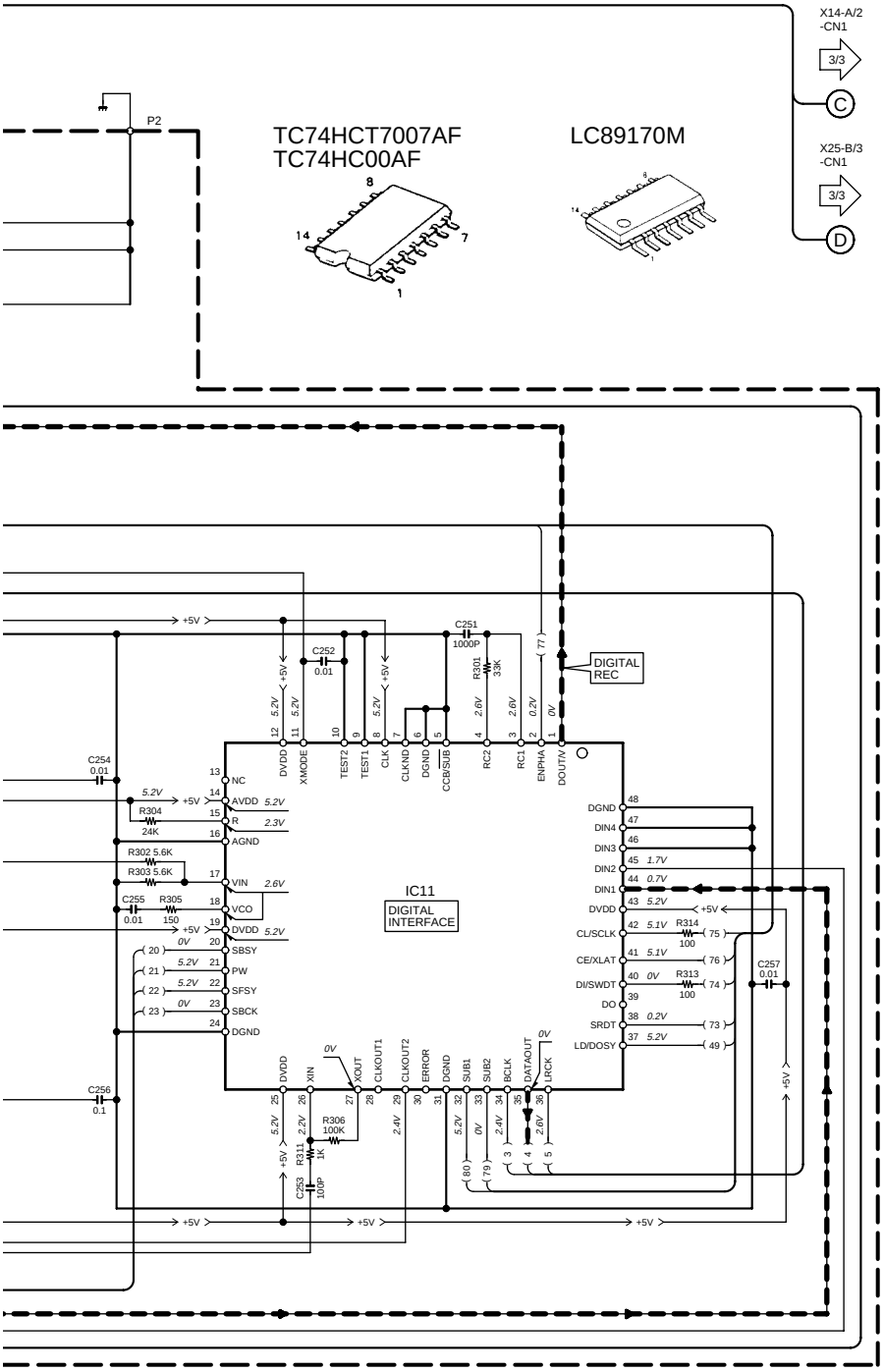
Y22-7501-00

DM-S500

KENWOOD

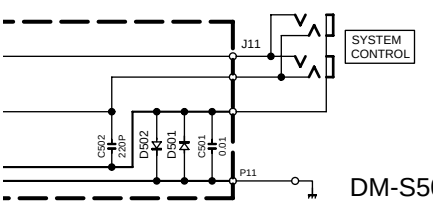
(X25-6012-72) (A/3)



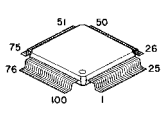


IC11	: LC8904Q	Q23	: 2SC4177(L5,L6) or 2SC4116(Y,GR)
IC12	: KAN03	Q24	: 2SA1586(Y,GR) or 2SA1611(M5,M6)
IC13	: SM5844AF	Q25,34	: 2SC3311A(Q,R) or 2SC2458(Y,GR)
IC14	: PST993D-T	Q29	: UN5216 or DTC143TU
IC15	: BU4094BCF	Q30	: UN5112 or DTA124EUA
IC16	: LC89170M	Q33,36	: UN5212 or DTC124EUA
IC17	: uPD784035GC806	Q35	: 2SA1048(Y,GR) or 2SA1309A(Q,R)
IC18,22	: HD74HC373FPEL		
IC19,21	: HM62256BLFP-8T		
IC20	: uPD784215GF506		
IC23	: TA8409S		
IC24,26	: TC74HCT7007AF		
IC25	: HD74HCT126FPEL		
IC27	: TC74VHC125F		
D20-22,24-30, 501,502	: MA111		

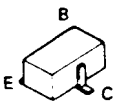
DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE



CXD2652AR



DTA144EUA
DTC114YUA
DTC143TU
UN5216
2SA1586
2SC4116



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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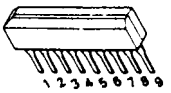
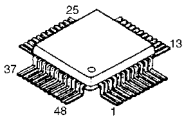
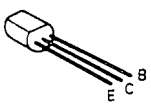
TA8409S



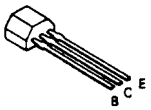
CXA2523AR
LC8904Q



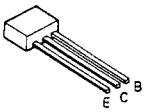
2SA954
2SC2003



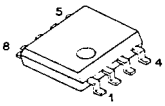
2SA1048
2SC2458



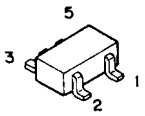
2SA1309A
2SC3311A



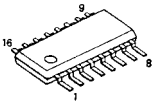
NJM062M
NJM2115M



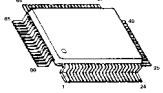
FMW1



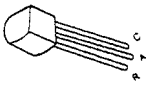
BU4094BCF



TC7SU04F



LM431AIZ

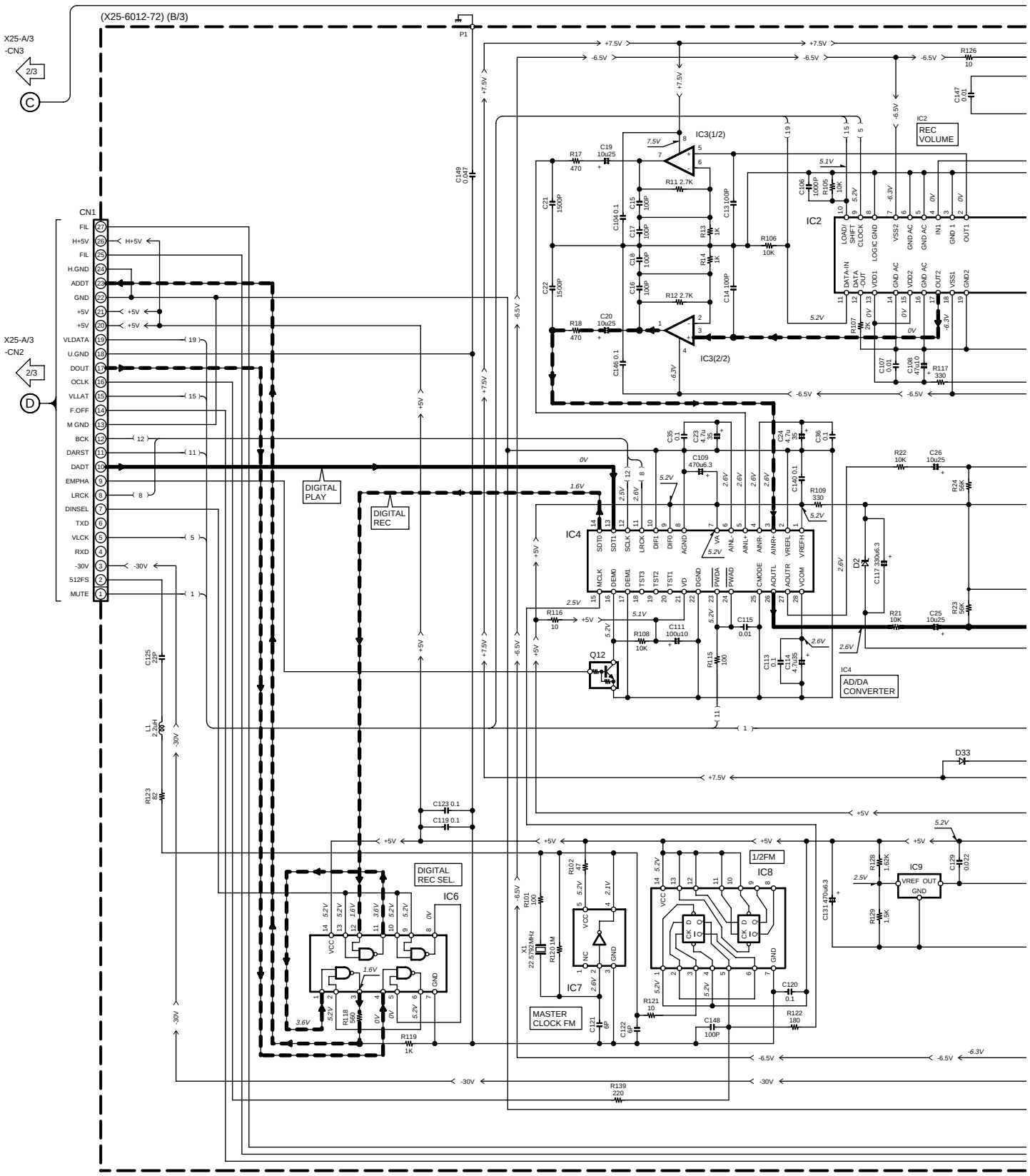


DM-S500 (2/3)

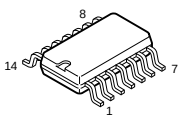
Y22-7501-00

DM-S500

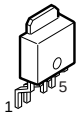
KENWOOD



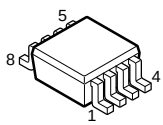
HD74HCT126FPEL
HD74HC74FPEL



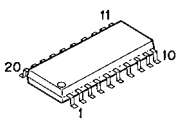
L88MS33T



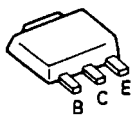
TC7WU04FU



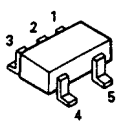
TC74ACT540FS



2SB798-DL



TC7S08FU



(X14-470X-XX) (A/5)

(X14-470X-XX) (D/5)

(X25-6012-72)
IC1 : NJM2115M
IC2 : LM1972M
IC3 : NJM062M
IC4 : AK4520-VF
IC5 : NJM2100M
IC6 : TC74HC00AF
IC7 : TC7SU04F
IC8 : HD74HC74FPEL
IC9,10 : LM431AIZ

Q1,2 : 2SD1450(S,T)
Q3,4 : 2SA1586(Y,GR) or 2SA1611(M5,M6)
Q5,12 : UN5212 or DTC124EUA
Q6 : 2SD2061 or 2SD2012
Q9 : 2SC3311A(Q,R) or 2SC2458(Y,GR)
Q10,11 : 2SA954(L,K)
Q13 : 2SC2003(L,K)

D2 : UDZ3.9B
D13,14 : UDZ16B
D15 : UDZ6.2B
D16,33 : MA111
D17 : UDZ5.6B
D18 : UDZ8.2B

DESTINATION		UNIT NO.	S14	WH3-5	W101
COUNTRY	ABB.				
GENERAL MARKET	M	0-21	YES	YES	NO
CANADA	P				
U.K.	T	2-70	NO	NO	YES
EUROPE	E				
USA	K				

(X14-4702-07)
IC1 : LC75710NED

Q1,5,6 : 2SC4177(L5,L6) or 2SC4116(Y,GR)
Q2 : 2SB1167(S,T) or 2SB1168(S,T)
Q3 : 2SC3311A(Q,R) or 2SC2458(Y,GR)
Q4 : 2SK246(Y)

D1 : D3SBA20F03
D2,7,11,13-18 : HSS104A or 1SS131
D5 : RD7.5JS(B2)
D6 : D1NL20U
D8,9 : B30-2508-05
D10 : B30-2513-05
D12 : S5688B or 1SR139-400

ED1 : BJ565GK

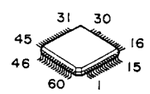
DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

DM-S500 (3/3)

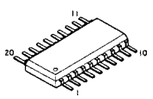
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.

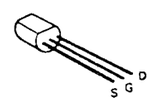
KAN03



LM1972M



2SK246



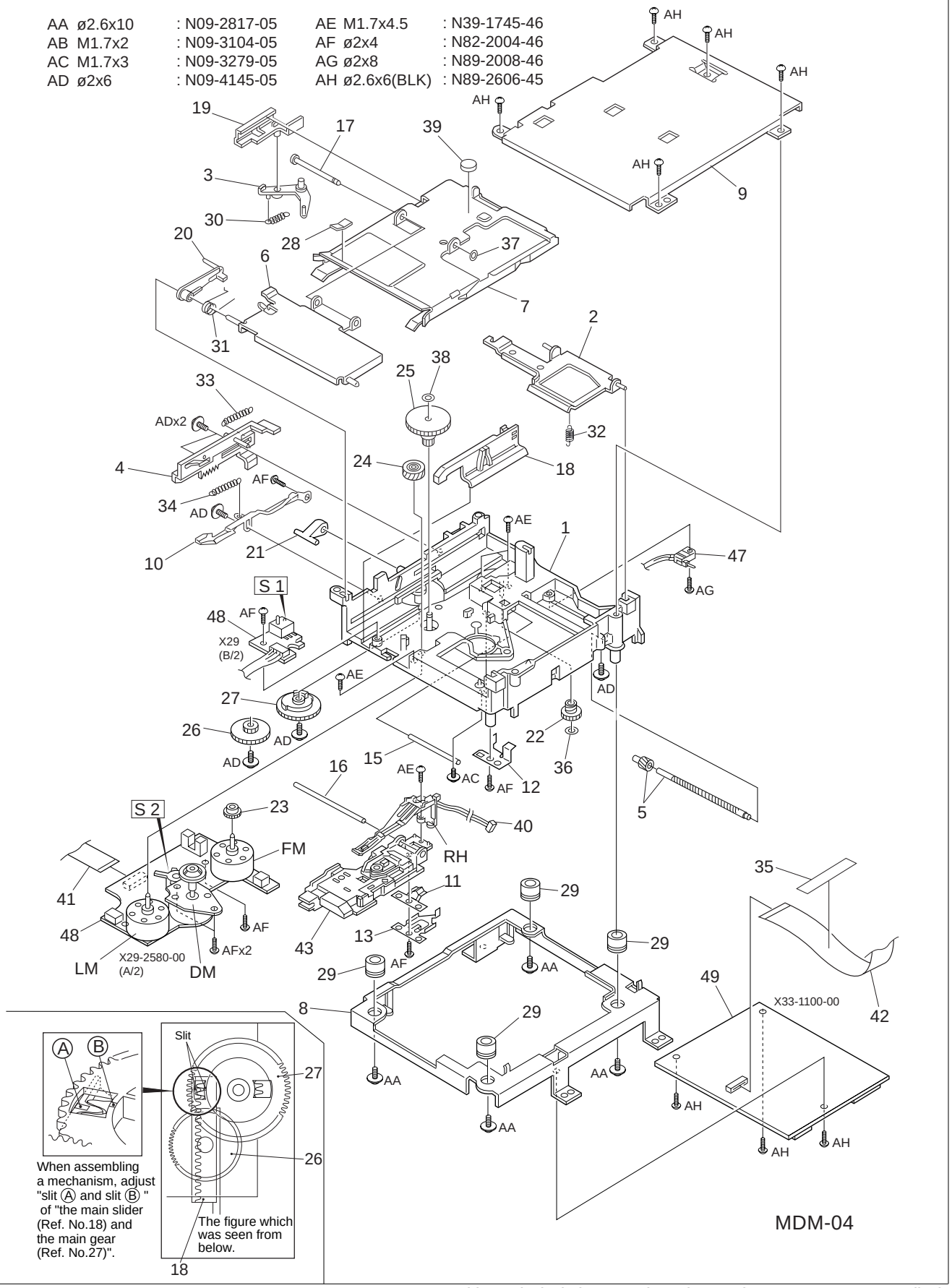
Y22-7501-00

DM-S500

KENWOOD

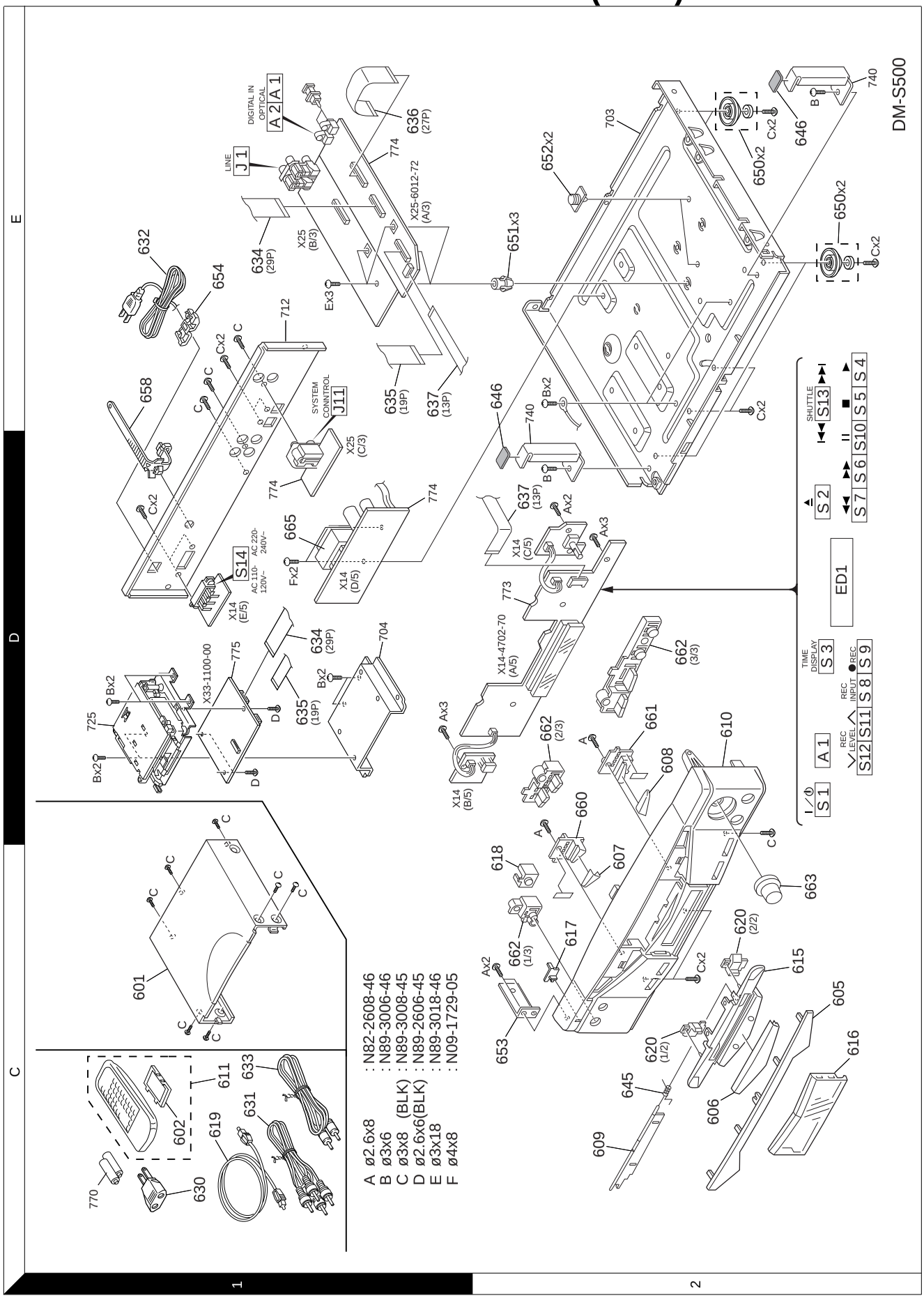
EXPLODED VIEW (MD MECHANISM)

AA ø2.6x10	: N09-2817-05	AE M1.7x4.5	: N39-1745-46
AB M1.7x2	: N09-3104-05	AF ø2x4	: N82-2004-46
AC M1.7x3	: N09-3279-05	AG ø2x8	: N89-2008-46
AD ø2x6	: N09-4145-05	AH ø2.6x6(BLK)	: N89-2606-45


A
B
1
2
3
When assembling a mechanism, adjust "slit Ⓐ and slit Ⓑ " of "the main slider (Ref. No.18) and the main gear (Ref. No.27)".
Slit
The figure which was seen from below.
MDM-04

Parts with exploded view numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with exploded view numbers larger than 700 are not supplied.

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❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
				DM-S500		
601	1C		A01-3444-01	METALLIC CABINET		
602	1C		A09-0356-08	BATTERY COVER		
605	2C	✻	A21-3620-02	DRESSING PANEL		
606	2C	✻	A21-3621-03	DRESSING PANEL		
607	2C	✻	A21-3622-03	DRESSING PANEL		
608	2D	✻	A21-3623-03	DRESSING PANEL		
609	2C	✻	A29-0891-04	PANEL		
610	2D	✻	A60-1290-01	PANEL	KP	
610	2D	✻	A60-1339-01	PANEL	MTE	
611	1C	✻	A70-1187-05	REMOTE CONTROLLER ASSY		
615	2C	✻	B07-2395-02	ESCUTCHEON		
616	2C		B10-2386-12	FRONT GLASS		
617	2C		B12-0311-04	INDICATOR		
618	2C		B12-0329-04	INDICATOR		
619	1C		B19-1529-05	OPTICAL FIBER		
620	2C	✻	B19-1583-14	LIGHTING BOARD		
-			B46-0310-03	WARRANTY CARD	TE	
-			B46-0319-00	QUESTIONNAIRE CARD	T	
-			B46-0328-03	WARRANTY CARD	k	
-			B46-0336-03	WARRANTY CARD	P	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD	k	
-			B58-0965-13	CAUTION CARD	T	
-			B58-0966-13	CAUTION CARD	ME	
-			B58-0967-03	CAUTION CARD	P	
-		✻	B60-3554-00	INSTRUCTION MANUAL(ENG)	KPMT	
-		✻	B60-3555-00	INSTRUCTION MANUAL(G/N)	E	
-		✻	B60-3556-00	INSTRUCTION MANUAL(FRN)	PE	
-		✻	B60-3557-00	INSTRUCTION MANUAL(SPN)	ME	
-		✻	B60-3558-00	INSTRUCTION MANUAL(TWN)	M	
-		✻	B60-3698-00	INSTRUCTION MANUAL(ITL)	E	
⚠ 630	1C		E03-0115-05	AC PLUG ADAPTER	M	
631	1C		E30-0505-05	AUDIO CORD		
⚠ 632	1E		E30-2592-15	AC POWER CORD	ME	
⚠ 632	1E		E30-2650-05	AC POWER CORD	KP	
⚠ 632	1E		E30-2721-05	AC POWER CORD	T	
633	1C		E30-2733-05	CORD WITH PLUG		
634	1D,1E	✻	E35-2030-05	FLAT CABLE 29P		
635	1D,1E	✻	E35-2031-05	FLAT CABLE 19P		
636	1E	✻	E35-2032-05	FLAT CABLE 27P		
637	2D,1E	✻	E35-2033-05	FLAT CABLE 13P		
645	2C		G01-4036-04	TORSION COIL SPRING		
646	2E		G11-2382-04	CUSHION		
-		✻	H10-7407-12	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7408-12	POLYSTYRENE FOAMED FIXTURE		
-		✻	H12-2384-04	PACKING FIXTURE	T	
-			H20-0568-04	PROTECTION COVER	M	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPME	
-			H25-0651-04	PROTECTION BAG	T	
-			H25-0661-04	PROTECTION BAG	KPTE	
-		✻	H50-2650-04	ITEM CARTON CASE	KPME	
-		✻	H50-2651-04	ITEM CARTON CASE	T	
650	2E		J02-1188-13	FOOT		
651	2E		J19-2598-05	HOLDER		

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
652	2E		J19-3721-14	UNIT HOLDER		
653	2C		J21-6480-04	MOUNTING HARDWARE		
⚠ 654	1E		J42-0083-05	POWER CORD BUSHING		
658	1E		J61-0101-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
660	2D		K29-6677-03	KNOB		
661	2D		K29-6679-03	KNOB		
662	2C,2D	✻	K29-6835-12	KNOB		
663	2C		K29-6945-04	KNOB		
⚠ 665	1D		L07-2393-15	POWER TRANSFORMER	TE	
⚠ 665	1D	✻	L07-2452-05	POWER TRANSFORMER	KP	
⚠ 665	1D	✻	L07-2453-05	POWER TRANSFORMER	M	
				DISPLAY (X14-4702-70)		
D8 ,9			B30-2508-05	LED(AMBER,D=3,P=2)		
D10			B30-2513-05	LED(RED-635NM,3)		
C1			C90-3209-05	ELECTRO 10UF 6.3WV		
C2			CK73FF1C474Z	CHIP C 0.47UF Z		
C3			CK73FB1E104K	CHIP C 0.10UF K		
C4			CC73FCH1H101J	CHIP C 100PF J		
C5			C90-3244-05	ELECTRO 10UF 35WV		
C6			CC73FSL1H102J	CHIP C 1000PF J		
C7			CK73FB1E473K	CHIP C 0.047UF K		
C8 ,9			CK73FB1H103K	CHIP C 0.010UF K		
C11			CE04KW1E222M	ELECTRO 2200UF 25WV		
C12			CK45FB1H102K	CERAMIC 1000PF K		
C13			CE04KW1A221M	ELECTRO 220UF 10WV		
C14			CE04KW1J220M	ELECTRO 22UF 63WV		
C15			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C16			CC73FCH1H101J	CHIP C 100PF J		
C17 -21			CK73FB1H103K	CHIP C 0.010UF K		
CN1			E40-8147-05	FLAT CABLE CONNECTOR		
CN2			E40-4296-05	FLAT CABLE CONNECTOR		
CN3			E40-4245-05	PIN ASSY		
E5 ,6			J11-0808-05	WIRE CLAMPER		
L1			L33-0558-05	CHOKE COIL		
R1			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R2			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R3			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R4			RK73FB2A103J	CHIP R 10K J 1/10W		
R5			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R6			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R7			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R8			RK73FB2A103J	CHIP R 10K J 1/10W		
R9			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R10			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R11 -14			RK73FB2A103J	CHIP R 10K J 1/10W		
R15			RK73FB2A104J	CHIP R 100K J 1/10W		
R16			RK73FB2A103J	CHIP R 10K J 1/10W		
R17			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R18 ,19			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R20			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R23			RK73FB2A151J	CHIP R 150 J 1/10W		
R25			RK73FB2A151J	CHIP R 150 J 1/10W		

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❸

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R26			RK73FB2A822J	CHIP R 8.2K	J	1/10W		
R27 -29			RK73FB2A243J	CHIP R 24K	J	1/10W		
R30			RK73FB2A822J	CHIP R 8.2K	J	1/10W		
R31			RK73FB2A472J	CHIP R 4.7K	J	1/10W		
R32			RK73FB2A561J	CHIP R 560	J	1/10W		
R33			RK73FB2A472J	CHIP R 4.7K	J	1/10W		
R34 ,35			RK73FB2A103J	CHIP R 10K	J	1/10W		
R36 ,37			RK73FB2A101J	CHIP R 100	J	1/10W		
R38 ,39			RD14NB2E2R2J	RD 2.2	J	1/4W		
R40			RK73FB2A473J	CHIP R 47K	J	1/10W		
S1 -12			S70-0031-05	TACT SWITCH				
S13			S60-0036-05	ROTARY SWITCH				
⚠ S14			S62-0001-05	SLIDE SWITCH			M	
⚠ D1			D3SBA20F03	DIODE				
D2			HSS104A	DIODE				
D2			1SS131	DIODE				
D5			RD7.5JS(B2)	ZENER DIODE				
D6			D1NL20U	DIODE				
D7			HSS104A	DIODE				
D7			1SS131	DIODE				
D11			HSS104A	DIODE				
D11			1SS131	DIODE				
⚠ D12			S5688B	DIODE				
D12			1SR139-400	DIODE				
D13 -18			HSS104A	DIODE				
D13 -18			1SS131	DIODE				
ED1			BJ565GK	INDICATOR TUBE				
IC1			LC75710NED	MOS-IC				
Q1			2SC4116(Y,GR)	TRANSISTOR				
Q1			2SC4177(L5,L6)	TRANSISTOR				
⚠ Q2			2SB1167(S,T)	TRANSISTOR				
⚠ Q2			2SB1168(S,T)	TRANSISTOR				
Q3			2SC2458(Y,GR)	TRANSISTOR				
Q3			2SC3311A(Q,R)	TRANSISTOR				
Q4			2SK246(Y)	FET				
Q5 ,6			2SC4116(Y,GR)	TRANSISTOR				
Q5 ,6			2SC4177(L5,L6)	TRANSISTOR				
A1			W02-2571-05	OPTIC RECEIVING MODULE				
CONTROL (X25-6012-72)								
C1 ,2			CC73FSL1H101J	CHIP C 100PF	J			
C3 ,4			CE04KW1H010M	ELECTRO 1.0UF	50WV			
C5 ,6			CC73FSL1H101J	CHIP C 100PF	J			
C9 ,10			CC73FSL1H101J	CHIP C 100PF	J			
C11 ,12			CE04KW1V4R7M	ELECTRO 4.7UF	35WV			
C13 -18			CC73FSL1H101J	CHIP C 100PF	J			
C19 ,20			CE04KW1E100M	ELECTRO 10UF	25WV			
C21 ,22			CK73FB1H152K	CHIP C 1500PF	K			
C23 ,24			CE04KW1V4R7M	ELECTRO 4.7UF	35WV			
C25 ,26			CE04KW1E100M	ELECTRO 10UF	25WV			
C27 ,28			CC73FSL1H101J	CHIP C 100PF	J			
C29 ,30			C90-3764-05	ELECTRO 10UF	35WV			
C31 ,32			CC73FSL1H221J	CHIP C 220PF	J			
C35 ,36			CK73FB1E104K	CHIP C 0.10UF	K			
C101,102			CE04KW1A470M	ELECTRO 47UF	10WV			

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❹

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C103			CE04KW1E100M	ELECTRO	10UF	25WV		
C104			CK73FB1E104K	CHIP C	0.10UF	K		
C105,106			CK73FB1H102K	CHIP C	1000PF	K		
C107			CK73FB1H103K	CHIP C	0.010UF	K		
C108			CE04KW1A470M	ELECTRO	47UF	10WV		
C109			CE04KW0J471M	ELECTRO	470UF	6.3WV		
C111			CE04KW1A101M	ELECTRO	100UF	10WV		
C113			CK73FB1E104K	CHIP C	0.10UF	K		
C114			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C115			CK73FB1H103K	CHIP C	0.010UF	K		
C117			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C118-120			CK73FB1E104K	CHIP C	0.10UF	K		
C121,122			CC73FCH1H060D	CHIP C	6.0PF	D		
C123			CK73FB1E104K	CHIP C	0.10UF	K		
C125			CC73FSL1H220J	CHIP C	22PF	J		
C126			CE04KW1A101M	ELECTRO	100UF	10WV		
C129			CK73FB1H223K	CHIP C	0.022UF	K		
C131			CE04KW0J471M	ELECTRO	470UF	6.3WV		
C132			CE04KW1A101M	ELECTRO	100UF	10WV		
C134,135			CE04KW1H100M	ELECTRO	10UF	50WV		
C136,137			CE04KW1E100M	ELECTRO	10UF	25WV		
C139			CK73FB1H102K	CHIP C	1000PF	K		
C140			CK73FB1E104K	CHIP C	0.10UF	K		
C143			CK73FB1H103K	CHIP C	0.010UF	K		
C144			CK73FB1H223K	CHIP C	0.022UF	K		
C146			CK73FB1E104K	CHIP C	0.10UF	K		
C147			CK73FB1H103K	CHIP C	0.010UF	K		
C148			CC73FSL1H101J	CHIP C	100PF	J		
C149			CK73FB1E473K	CHIP C	0.047UF	K		
C201			CK73FB1H103K	CHIP C	0.010UF	K		
C202			CE04KW1A470M	ELECTRO	47UF	10WV		
C203-207			CK73FB1H103K	CHIP C	0.010UF	K		
C213,214			CK73FB1E104K	CHIP C	0.10UF	K		
C215			CK73FB1H103K	CHIP C	0.010UF	K		
C216			CE04KW1A470M	ELECTRO	47UF	10WV		
C217			CK73FB1H103K	CHIP C	0.010UF	K		
C218,219			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C220			C90-3623-05	BACK UP	0.33F	5.5V		
C221			CE04KW1A470M	ELECTRO	47UF	10WV		
C222,223			CK73FB1E104K	CHIP C	0.10UF	K		
C224			CK73FB1H103K	CHIP C	0.010UF	K		
C225			CK73FF1C224Z	CHIP C	0.22UF	Z		
C226,227			CK73FB1H103K	CHIP C	0.010UF	K		
C251			CK73FB1H102K	CHIP C	1000PF	K		
C252			CK73FB1H103K	CHIP C	0.010UF	K		
C253			CC73FSL1H101J	CHIP C	100PF	J		
C254,255			CK73FB1H103K	CHIP C	0.010UF	K		
C256			CK73FB1E104K	CHIP C	0.10UF	K		
C257			CK73FB1H103K	CHIP C	0.010UF	K		
C258			CK73FB1C224K	CHIP C	0.22UF	K		
C259			CK73FB1H103K	CHIP C	0.010UF	K		
C261			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C262-266			CK73FB1H103K	CHIP C	0.010UF	K		
C501			CK73FB1H103K	CHIP C	0.010UF	K		
C502,503			CC73FSL1H221J	CHIP C	220PF	J		
C504			CK73FB1H103K	CHIP C	0.010UF	K		

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CN1 ,2			E40-9966-05	FLAT CABLE CONNECTOR					
CN3		✻	E40-8147-05	FLAT CABLE CONNECTOR					
CN4			E40-8055-05	FLAT CABLE CONNECTOR					
CN5			E40-8054-05	FLAT CABLE CONNECTOR					
CN11			E40-4293-05	FLAT CABLE CONNECTOR					
J1			E63-0120-05	PHONO JACK					
J11			E11-0188-05	MINIATURE PHONE JACK(2P)					
L1			L40-2291-31	SMALL FIXED INDUCTOR					
L2 ,3			L79-1216-05	LINE FILTER					
X1			L77-2205-05	CRYSTAL RESONATOR					
X2			L78-0277-05	RESONATOR	(12.000M)				
X3			L78-0615-05	RESONATOR	(12.5MHZ)				
R1 ,2			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R3 ,4			RK73FB2A224J	CHIP R	220K	J	1/10W		
R5 ,6			RK73FB2A104J	CHIP R	100K	J	1/10W		
R7 ,8			RK73FB2A221J	CHIP R	220	J	1/10W		
R11 ,12			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R13 ,14			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R17 ,18			RK73FB2A471J	CHIP R	470	J	1/10W		
R21 ,22			RK73FB2A103J	CHIP R	10K	J	1/10W		
R23 ,24			RK73FB2A563J	CHIP R	56K	J	1/10W		
R25 ,26			RK73FB2A223J	CHIP R	22K	J	1/10W		
R27 ,28			RK73FB2A153J	CHIP R	15K	J	1/10W		
R29 ,30			RK73FB2A104J	CHIP R	100K	J	1/10W		
R31 ,32			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R101			RK73FB2A101J	CHIP R	100	J	1/10W		
R102			RK73FB2A470J	CHIP R	47	J	1/10W		
R104			RK73FB2A151J	CHIP R	150	J	1/10W		
R105,106			RK73FB2A103J	CHIP R	10K	J	1/10W		
R107			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R108			RK73FB2A103J	CHIP R	10K	J	1/10W		
R109			RK73FB2A331J	CHIP R	330	J	1/10W		
R110			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R111,112			RK73FB2A223J	CHIP R	22K	J	1/10W		
R113,114			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R115			RK73FB2A101J	CHIP R	100	J	1/10W		
R116			RK73FB2A100J	CHIP R	10	J	1/10W		
R117			RK73FB2A331J	CHIP R	330	J	1/10W		
R118			RK73FB2A561J	CHIP R	560	J	1/10W		
R119			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R120			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R121			RK73FB2A100J	CHIP R	10	J	1/10W		
R122			RK73FB2A181J	CHIP R	180	J	1/10W		
R123			RK73FB2A820J	CHIP R	82	J	1/10W		
R124			RK73FB2A101J	CHIP R	100	J	1/10W		
R125			RK73FB2A221J	CHIP R	220	J	1/10W		
R126			RK73FB2A100J	CHIP R	10	J	1/10W		
R127			RD14NB2E470J	RD	47	J	1/4W		
R128			R92-1840-05	CHIP R	1.62K	F	1/10W		
R129			R92-1839-05	CHIP R	1.5K	F	1/10W		
R130			RS14KB3A332J	FL-PROOF RS	3.3K	J	1W		
R131,132			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R133,134			RK73FB2A181J	CHIP R	180	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R135			R92-1840-05	CHIP R	1.62K	F	1/10W		
R136			R92-1839-05	CHIP R	1.5K	F	1/10W		
R137			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R138			RK73FB2A103J	CHIP R	10K	J	1/10W		
R139			RK73FB2A221J	CHIP R	220	J	1/10W		
R201-203			RK73FB2A104J	CHIP R	100K	J	1/10W		
R204,205			RK73FB2A101J	CHIP R	100	J	1/10W		
R206			RK73FB2A104J	CHIP R	100K	J	1/10W		
R207			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R208			RK73FB2A101J	CHIP R	100	J	1/10W		
R209-212			RK73FB2A104J	CHIP R	100K	J	1/10W		
R213			RK73FB2A101J	CHIP R	100	J	1/10W		
R214-216			RK73FB2A104J	CHIP R	100K	J	1/10W		
R217			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R218			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R219			RK73FB2A561J	CHIP R	560	J	1/10W		
R220			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R221			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R222			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R223,224			RK73FB2A104J	CHIP R	100K	J	1/10W		
R225			RK73FB2A103J	CHIP R	10K	J	1/10W		
R226-228			RK73FB2A104J	CHIP R	100K	J	1/10W		
R230			RK73FB2A103J	CHIP R	10K	J	1/10W		
R231,232			RK73FB2A104J	CHIP R	100K	J	1/10W		
R233			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R234			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R235,236			RK73FB2A101J	CHIP R	100	J	1/10W		
R237			RK73FB2A183J	CHIP R	18K	J	1/10W		
R238			RK73FB2A273J	CHIP R	27K	J	1/10W		
R239-242			RK73FB2A101J	CHIP R	100	J	1/10W		
R243			RK73FB2A104J	CHIP R	100K	J	1/10W		
R244			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R245			RK73FB2A104J	CHIP R	100K	J	1/10W		
R246			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R247			RK73FB2A101J	CHIP R	100	J	1/10W		
R248-264			RK73FB2A104J	CHIP R	100K	J	1/10W		
R265			RK73FB2A473J	CHIP R	47K	J	1/10W		
R266,267			RK73FB2A104J	CHIP R	100K	J	1/10W		
R270			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R271-275			RK73FB2A104J	CHIP R	100K	J	1/10W		
R276			RK73FB2A153J	CHIP R	15K	J	1/10W		
R277			RK73FB2A123J	CHIP R	12K	J	1/10W		
R278			RK73FB2A103J	CHIP R	10K	J	1/10W		
R279			RK73FB2A331J	CHIP R	330	J	1/10W		
R280,281			RK73FB2A104J	CHIP R	100K	J	1/10W		
R282			RK73FB2A331J	CHIP R	330	J	1/10W		
R283,284			RK73FB2A104J	CHIP R	100K	J	1/10W		
R285			RK73FB2A473J	CHIP R	47K	J	1/10W		
R286			RK73FB2A104J	CHIP R	100K	J	1/10W		
R287			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R288			RK73FB2A473J	CHIP R	47K	J	1/10W		
R289			RK73FB2A101J	CHIP R	100	J	1/10W		
R290			RK73FB2A471J	CHIP R	470	J	1/10W		
R291			RK73FB2A104J	CHIP R	100K	J	1/10W		
R292			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R293,294			RK73FB2A103J	CHIP R	10K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
R295			RK73FB2A473J	CHIP R 47K J 1/10W		
R301			RK73FB2A333J	CHIP R 33K J 1/10W		
R302,303			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R304			RK73FB2A243J	CHIP R 24K J 1/10W		
R305			RK73FB2A151J	CHIP R 150 J 1/10W		
R306			RK73FB2A104J	CHIP R 100K J 1/10W		
R307-309			RK73FB2A221J	CHIP R 220 J 1/10W		
R310,311			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R312			RK73FB2A473J	CHIP R 47K J 1/10W		
R313-315			RK73FB2A101J	CHIP R 100 J 1/10W		
D2			UDZ3.9B	ZENER DIODE		
D13 ,14			UDZ16B	ZENER DIODE		
D15			UDZ6.2B	ZENER DIODE		
D16			MA111	DIODE		
D17			UDZ5.6B	ZENER DIODE		
D18			UDZ8.2B	ZENER DIODE		
D20 -22			MA111	DIODE		
D24 -30			MA111	DIODE		
D33			MA111	DIODE		
D501,502			MA111	DIODE		
IC1			NJM2115M	ANALOGUE IC		
IC2			LM1972M	ANALOGUE IC		
IC3			NJM062M	ANALOGUE IC		
IC4			AK4520-VF	MOS-IC		
IC5			NJM2100M	IC(OP AMPLIFIER)		
IC6			TC74HC00AF	IC(2INPUT NAND GATE)		
IC7			TC7SU04F	MOS-IC		
IC8			HD74HC74FPEL	MOS-IC		
IC9 ,10			LM431AIZ	ANALOGUE IC		
IC11			LC8904Q	MOS-IC		
IC12			KAN03	CUSTOM IC		
IC13			SM5844AF	MOS-IC		
IC14			PST993D-T	ANALOGUE IC		
IC15			BU4094BCF	MOS-IC		
IC16			LC89170M	MOS-IC		
IC17		✻	UPD784035GC806	MI-COM IC		
IC18			HD74HC373FPEL	MOS-IC		
IC19			HM62256BLFP-8T	MEMORY IC		
IC20		✻	UPD784215GF506	MI-COM IC		
IC21			HM62256BLFP-8T	MEMORY IC		
IC22			HD74HC373FPEL	MOS-IC		
IC23			TA8409S	MOS-IC		
IC24			TC74HCT7007AF	IC(HEX BUFFER)		
IC25			HD74HCT126FPEL	MOS-IC		
IC26			TC74HCT7007AF	IC(HEX BUFFER)		
IC27			TC74VHC125F	MOS-IC		
Q1 ,2			2SD1450(S,T)	TRANSISTOR		
Q3 ,4			2SA1586(Y,GR)	TRANSISTOR		
Q3 ,4			2SA1611(M5,M6)	TRANSISTOR		
Q5			DTC124EUA	DIGITAL TRANSISTOR		
Q5			UN5212	DIGITAL TRANSISTOR		
⚠ Q6			2SD2012	TRANSISTOR		
⚠ Q6			2SD2061	TRANSISTOR		
⚠ Q9			2SC2458(Y,GR)	TRANSISTOR		
⚠ Q9			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q10 ,11			2SA954(L,K)	TRANSISTOR		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q12			DTC124EUA	DIGITAL TRANSISTOR		
Q12			UN5212	DIGITAL TRANSISTOR		
Q13			2SC2003(L,K)	TRANSISTOR		
Q23			2SC4116(Y,GR)	TRANSISTOR		
Q23			2SC4177(L5,L6)	TRANSISTOR		
Q24			2SA1586(Y,GR)	TRANSISTOR		
Q24			2SA1611(M5,M6)	TRANSISTOR		
Q25			2SC2458(Y,GR)	TRANSISTOR		
Q25			2SC3311A(Q,R)	TRANSISTOR		
Q29			DTC143TU	DIGITAL TRANSISTOR		
Q29			UN5216	DIGITAL TRANSISTOR		
Q30			DTA124EUA	DIGITAL TRANSISTOR		
Q30			UN5112	DIGITAL TRANSISTOR		
Q33			DTC124EUA	DIGITAL TRANSISTOR		
Q33			UN5212	DIGITAL TRANSISTOR		
Q34			2SC2458(Y,GR)	TRANSISTOR		
Q34			2SC3311A(Q,R)	TRANSISTOR		
Q35			2SA1048(Y,GR)	TRANSISTOR		
Q35			2SA1309A(Q,R)	TRANSISTOR		
Q36			DTC124EUA	DIGITAL TRANSISTOR		
Q36			UN5212	DIGITAL TRANSISTOR		
A1 ,2			W02-1181-05	OPTIC RECEIVING MODULE		
MECHANISM PCB (X29-2580-00)						
CN1			E40-3260-05	PIN ASSY		
CN2			E40-3261-05	PIN ASSY		
CN3			E40-8076-05	FLAT CABLE CONNECTOR		
S1			S64-0028-05	LEVER SWITCH		
S2			S68-0074-05	PUSH SWITCH		
PH1			T95-0140-05	OPTO ISOLATOR		
MECHANISM CONTROL (X33-1100-00)						
C21 ,22			CC73FCH1H020C	CHIP C 2.0PF C		
C101			C92-0628-05	CHIP-TAN 10UF 10WV		
C102			CK73FB1E104K	CHIP C 0.10UF K		
C103,104			C92-0628-05	CHIP-TAN 10UF 10WV		
C105			CK73FB1H103K	CHIP C 0.010UF K		
C106			CC73FCH1H102J	CHIP C 1000PF J		
C107,108			CK73FF1E104Z	CHIP C 0.10UF Z		
C109			CK73FB1H223K	CHIP C 0.022UF K		
C110			CK73FB1E104K	CHIP C 0.10UF K		
C111			CK73FB1H683K	CHIP C 0.068UF K		
C112			CK73FB1H472K	CHIP C 4700PF K		
C113			CK73FF1C105Z	CHIP C 1.0UF Z		
C115			CK73FB1C224K	CHIP C 0.22UF K		
C116			CK73FB1H223K	CHIP C 0.022UF K		
C117,118			CK73FB1E104K	CHIP C 0.10UF K		
C119			C92-0628-05	CHIP-TAN 10UF 10WV		
C121			C92-0048-05	ELECTRO 100UF 6.3WV		
C122			CK73FB1H103K	CHIP C 0.010UF K		
C123			CK73FF1E104Z	CHIP C 0.10UF Z		
C127			CK73FF1E104Z	CHIP C 0.10UF Z		
C128			CK73FB1H103K	CHIP C 0.010UF K		
C129			CK73FB1C474K	CHIP C 0.47UF K		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C130			CC73FSL1H101J	CHIP C	100PF	J		
C131			CK73FB1H153K	CHIP C	0.015UF	K		
C132			CK73FB1C474K	CHIP C	0.47UF	K		
C133			CK73FB1H472K	CHIP C	4700PF	K		
C134,135			CK73FF1E104Z	CHIP C	0.10UF	Z		
C136			C92-0048-05	ELECTRO	100UF	6.3WV		
C141			CK73FF1E104Z	CHIP C	0.10UF	Z		
C142-144			CC73FSL1H101J	CHIP C	100PF	J		
C146			CK73FF1E104Z	CHIP C	0.10UF	Z		
C151			C92-0048-05	ELECTRO	100UF	6.3WV		
C152			CK73FF1E104Z	CHIP C	0.10UF	Z		
C153			CK73FB1H103K	CHIP C	0.010UF	K		
C156			CK73FF1E104Z	CHIP C	0.10UF	Z		
C158			CK73FB1H682K	CHIP C	6800PF	K		
C160,161			C92-0167-05	CHIP-ELE	10UF	10WV		
C163,164			CK73FB1H103K	CHIP C	0.010UF	K		
C167,168			CK73FF1E104Z	CHIP C	0.10UF	Z		
C169			C92-0628-05	CHIP-TAN	10UF	10WV		
C171			CK73FF1E104Z	CHIP C	0.10UF	Z		
C181			C92-0048-05	ELECTRO	100UF	6.3WV		
C182,183			CK73FF1E104Z	CHIP C	0.10UF	Z		
C184			C92-0149-05	CHIP-ELE	22UF	8WV		
C185			C93-0031-05	CHIP-C	1000P	500V		
C187			C92-0048-05	ELECTRO	100UF	6.3WV		
C188			CK73FB1H103K	CHIP C	0.010UF	K		
C189			CK73FB1H333K	CHIP C	0.033UF	K		
C190			C92-0048-05	ELECTRO	100UF	6.3WV		
C191			CK73FF1E104Z	CHIP C	0.10UF	Z		
C195			CK73FF1C105Z	CHIP C	1.0UF	Z		
C196,197			CK73FF1E104Z	CHIP C	0.10UF	Z		
C200			C93-0032-05	CHIP C	10UF	10WV		
CN101			E40-8074-05	FLAT CABLE CONNECTOR				
CN102			E40-8075-05	FLAT CABLE CONNECTOR				
CN103			E40-8077-05	FLAT CABLE CONNECTOR				
CN104			E40-8078-05	PIN ASSY				
CN105			E40-8076-05	FLAT CABLE CONNECTOR				
L1 ,2			L33-0545-05	CHOKE COIL				
L3 ,4			L33-0369-05	CHOKE COIL				
L5 -11			L79-1216-05	LINE FILTER				
R103			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R104			RK73FB2A103J	CHIP R	10K	J 1/10W		
R105			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R106			RK73FB2A335J	CHIP R	3.3M	J 1/10W		
R107			RK73FB2A474J	CHIP R	470K	J 1/10W		
R108,109			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R110			RK73FB2A103J	CHIP R	10K	J 1/10W		
R112			RK73FB2A473J	CHIP R	47K	J 1/10W		
R113			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R115			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R117			RK73FB2A474J	CHIP R	470K	J 1/10W		
R120			RK73FB2A101J	CHIP R	100	J 1/10W		
R121			RK73FB2A104J	CHIP R	100K	J 1/10W		
R123			RK73FB2A221J	CHIP R	220	J 1/10W		
R124,125			RK73FB2A101J	CHIP R	100	J 1/10W		
R127			RK73FB2A101J	CHIP R	100	J 1/10W		

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R131			RK73FB2A103J	CHIP R	10K	J 1/10W		
R132			RK73FB2A104J	CHIP R	100K	J 1/10W		
R133			RK73FB2A684J	CHIP R	680K	J 1/10W		
R134			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R135			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R136			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R137			RK73FB2A101J	CHIP R	100	J 1/10W		
R140			RK73FB2A151J	CHIP R	150	J 1/10W		
R141			RK73FB2A561J	CHIP R	560	J 1/10W		
R142,143			RK73FB2A103J	CHIP R	10K	J 1/10W		
R144			RK73FB2A101J	CHIP R	100	J 1/10W		
R146-148			RK73FB2A101J	CHIP R	100	J 1/10W		
R150			RK73FB2A221J	CHIP R	220	J 1/10W		
R158,159			RK73FB2A104J	CHIP R	100K	J 1/10W		
R161-163			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R164			RK73FB2A681J	CHIP R	680	J 1/10W		
R165			RK73FB2A104J	CHIP R	100K	J 1/10W		
R166			R92-1854-05	RN	2.2	K 1/2W		
R167			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R169			R92-1853-05	CHIP-RN	1	1/4W		
R170,171			RK73FB2A103J	CHIP R	10K	J 1/10W		
R173			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R175			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R177			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R179			RK73FB2A473J	CHIP R	47K	J 1/10W		
R180,181			RK73FB2A103J	CHIP R	10K	J 1/10W		
R182,183			RK73FB2A473J	CHIP R	47K	J 1/10W		
R184,185			RK73FB2A103J	CHIP R	10K	J 1/10W		
R188-190			RK73FB2A103J	CHIP R	10K	J 1/10W		
W1 -4			R92-0670-05	CHIP R	0 OHM			
W101			R92-0670-05	CHIP R	0 OHM			
W108			R92-0679-05	CHIP R	0 OHM			
W109			R92-0670-05	CHIP R	0 OHM			
W111			R92-0670-05	CHIP R	0 OHM			
W114			R92-0670-05	CHIP R	0 OHM			
W116			R92-0670-05	CHIP R	0 OHM			
W178			R92-0670-05	CHIP R	0 OHM			
W186,187			R92-0679-05	CHIP R	0 OHM			
W195,196			R92-0670-05	CHIP R	0 OHM			
W198-201			R92-0670-05	CHIP R	0 OHM			
D1 ,2			F1J6TP	DIODE				
D101			MA111	DIODE				
IC1			CXA2523AR	ANALOGUE IC				
IC2			CXD2652AR	MOS-IC				
IC3			TC7S08FU	MOS-IC				
IC4			TC7WU04FU	MOS-IC				
IC5			TC74ACT540FS	MOS-IC				
IC6			X24C01AS-2.7	MEMORY IC				
IC7			HM51W4400BTT-7	MEMORY IC				
IC8			BH6511FS	ANALOGUE IC				
IC10			L88MS33T	ANALOGUE IC				
Q1			FMW1	TRANSISTOR				
Q2 ,3			DTA144EUA	DIGITAL TRANSISTOR				
Q4 ,5			DTC114YUA	DIGITAL TRANSISTOR				
Q6			2SA1576A(R,S)	TRANSISTOR				
Q7			2SB798-DL	TRANSISTOR				

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PARTS LIST / SPECIFICATIONS

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q8			2SJ278	FET		
Q9			2SK1764	FET		
Q10			DTC114EUA	DIGITAL TRANSISTOR		
			MECHANISM (D40-1533-05)			
1	2B		A10-3329-08	CHASSIS ASSY		
2	1B		D10-3690-08	LEVER ASSY		
3	1A		D10-3698-08	ARM ASSY		
4	2A		D10-3759-08	SLIDER ASSY (HD)		
5	2B		D13-1784-08	GEAR ASSY (T)		
6	1A		J11-0824-08	CLAMPER ASSY		
7	1B		J19-5766-08	HOLDER ASSY		
8	3A		A11-1113-08	SUB CHASSIS (FRAME)		
9	1B		A11-1116-08	SUB CHASSIS (TOP)		
10	2A		D10-3742-08	LEVER (DOOR)		
11	3A		D13-1792-08	RACK (GEAR)		
12	2B		G02-1616-08	FLAT SPRING (THRUST)		
13	3A		G02-1618-08	FLAT SPRING (SUB)		
15	2A		D10-3685-08	SHAFT (SUB)		
16	2A		D10-3694-08	SHAFT (MAIN)		
17	1A		D21-1859-08	SHAFT (JOINT)		
18	2B		D10-3686-08	SLIDER (MAIN)		
19	1A		D10-3687-08	SLIDER (LD)		
20	1A		D10-3689-08	ARM (CLAMP)		
21	2A		D10-3692-08	ARM (CHANGE)		
22	2B		D13-1786-08	GEAR (WORM)		
23	2A		D13-1787-08	GEAR (MOTOR-T)		
24	2A		D13-1788-08	GEAR (MOTOR-L)		
25	1A		D13-1789-08	GEAR (INTERMEDIATE LA)		
26	2A		D13-1790-08	GEAR (INTERMEDIATE LB)		
27	2A		D13-1791-08	GEAR (MAIN)		
28	1A		G13-0560-08	CUSHION		
29	3A,3B		J02-1178-08	INSULATOR		
30	1A		G01-3964-08	EXTENSION SP		
31	1A		G01-3965-08	TORSION SP		
32	2B		G01-3966-08	EXTENSION SP (S/HD)		
33	1A		G01-3967-08	EXTENSION SP (DOOR)		
34	2A		G01-4014-08	EXTENSION SP		
35	3B		G10-0146-04	NON-WOVEN-FABRIC		
36	2B		N19-1101-04	POLY WS 1.2*3.0*0.5CUT		
37	1B		N19-1105-04	POLY WS 1.6*3.5*0.5CUT		
38	1A		N19-0366-04	POLY WS 2.1*4.0*0.5CUT		
39	1A		G16-0877-04	SHEET (TRAY)		
40	2B		E35-1715-08	WIRING HARNESS		
41	3A		E35-1780-08	FLAT CABLE		
42	3B		J80-0012-08	FPC		
47	2B		S33-1022-05	PUSH SWITCH SPPB12		
48	2A,3A		J26-0052-08	PCB ASSY (X29-2580-00)		
DM	3A		T42-0871-08	MOTOR ASSY		
FM	3A		T42-0880-05	DC MOTOR		
LM	3A		T42-0881-05	DC MOTOR		
PU	3A		T25-0060-05	OPTICAL PICKUP HEAD		
RH	3A		T30-0013-05	RECORD HEAD		

⚠

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico
Y : PX(Far East, Hawaii) **T :** Europe **E :** Europe **G :** Germany
Y : AAFES(Europe) **X :** Australia **M :** Other Areas

⚠ indicates safety critical components.

SPECIFICATIONS

[Format]

System .....Minidisc digital audio system
Laser .....Semiconductor laser
Recording method.....Field modulation overwrite method
Audio compression
.....ATRAC (Adaptive TRansform Acoustic Coding)
Playing rotation.....Approx. 400 rpm ~ 900 rpm (CLV)

[D/A conversion]

D/A conversion .....1 Bit
Oversampling .....128 fs (5644.8 kHz)

[A/D converter]

A/D conversion .....Sigma-delta method
Sampling frequency.....44.1 kHz

[Digital audio performance]

Frequency response (playback mode)
.....8 Hz ~ 20 kHz, ± 1 dB
Signal to noise ratio (playback mode) .....More than 92 dB
Dynamic range (playback mode).....More than 90 dB
Total harmonic distortion (1 kHz, playback mode)
.....Less than 0.007 %
Channel separation (1 kHz, playback mode)
.....More than 86 dB
Wow & flutter.....Less than measurable limit
Analog input sensitivity / input impedance .....300 mV / 70 kΩ
Analog output level / load impedance.....1.2 V / 3.2 kΩ
Digital input
Optical(Wave length 660 nm) .....- 15 dBm ~ - 21 dBm

[General]

Power consumption .....14 W
Dimensions .....W: 400 mm (15 - 3 / 4")
H: 100 mm (3 - 15 / 16")
D: 365 mm (14 - 3 / 8")
Weight (Net).....3.7 kg (8.2 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited at extremely cold locations (under a water-freezing temperature).

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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